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RESEARCH MEMORANDUM

EXPERIMENTAL INVESTIGATION OF AERODYNAMICALLY BALANCED TRAILING-EDGE CONTROL SURFACES ON AN ASPECT RATIO 2 TRIANGULAR WING AT SUBSONIC AND SUPERSONIC SPEEDS

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RESEARCH MEMORANDUM

EXPERIMENTAL INVESTIGATION OF AERODYNAMICALLY BALANCED TRAILING-EDGE CONTROL SURFACES ON AN ASPECT RATIO 2 TRIANGULAR WING AT SUBSONIC AND SUPERSONIC SPEEDS

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SUMMARY

The results of an experimental investigation of several types of aerodynamically balanced trailing-edge flaps on an aspect ratio 2 triangular wing are presented. The balancing devices employed consisted of flap overhang, paddles, rectangular and triangular horns, and trailing-edge tabs. The lift, drag, pitching moment, hinge moment, and, in some instances, the rolling moment were obtained for Mach numbers of 0.6, 0.8, 0.9, 1.2, 1.3, 1.5, 1.7, and 1.9 at a constant Reynolds number of 4.4 million and for angles of attack from about -4° to 18°. The flap deflections were varied from 4° to -28°.

The results showed no significant nonlinearities in the pitching moments for the balanced flap arrangements investigated. Most of the flap balances did contribute nonlinear hinge-moment characteristics at subsonic speeds but showed essentially linear hinge-moment characteristics throughout the supersonic speed range.

Comparison of the control-surface parameters of the various flap balances with those of the unbalanced flap showed the following results:

The overhang balances gave appreciable reductions in the hinge-moment parameters at subsonic speeds but were relatively ineffective in providing aerodynamic balance at supersonic speeds at low angles of deflection. The configurations employing the overhang balances had, in some instances, minimum drag coefficients that were 15 percent greater than the minimum drag coefficients of the configuration employing the unbalanced flap.

The paddle balances mounted forward of the hinge line provided material reductions in the hinge-moment parameter, C_{h_δ}, throughout the speed range investigated but had little influence on C_{h_α}. At supersonic

speeds, the balance effectiveness increased with increasing Mach number. The paddle balance mounted behind the hinge line showed negligible effect on the hinge-moment characteristics at subsonic speeds; at low supersonic Mach numbers material reductions in C_{h_δ} were realized but the balance effectiveness decreased with increasing Mach number. Addition of the paddle balances to the control resulted in large increases in the minimum drag coefficient.

The unshielded horn balances provided some reduction in the hinge-moment parameters throughout the speed range investigated. The 20.3-percent-area rectangular horn materially reduced both C_{h_α} and C_{h_δ} at supersonic speeds but resulted in large overbalanced values of C_{h_α} at subsonic speeds. Reducing the horn size to 6.4 percent resulted in considerably reduced aerodynamic balance at supersonic speeds with closely balanced values of C_{h_α} at subsonic speeds. The 5.5-percent-area triangular horn also showed closely balanced values of C_{h_α} at subsonic speeds but only a small reduction in the hinge-moment parameters at supersonic speeds.

The trailing-edge tab geared for equal and opposite deflections to that of the control surface produced substantial reductions in C_{h_δ} at subsonic speeds but was relatively ineffective in reducing C_{h_δ} at supersonic speeds.

Throughout the speed range investigated, only the trailing-edge tab caused any appreciable loss in the control pitching-moment effectiveness.

A comparison of the measured values of the pitching-moment-effectiveness parameter and the hinge-moment parameters with the theoretical values was made in the supersonic speed range for the unbalanced flap, the overhang balances and the horn balances. The results showed that the linearized theory predicted reasonably well the variation of the parameters with Mach number but not the absolute values.

INTRODUCTION

The excessive hinge moments associated with trailing-edge flaps when used as control devices on high-speed aircraft have necessitated the use of irreversible-powered control systems. To enable a pilot to safely fly such aircraft in case of power failure, the large control forces inherent in the flap-type control must be reduced. As part of a program of investigation of trailing-edge controls, several aerodynamically balanced control surfaces are currently being investigated in the Ames 6- by 6-foot supersonic wind tunnel to determine a satisfactory means for reducing the prohibitive control forces.

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This paper presents the results of a portion of this work concerned with the properties of various types of aerodynamic balances designed to reduce the control hinge moments. The basic control configuration consisted of an unbalanced, constant-chord, trailing-edge, hinged flap with an area equal to approximately 14.6 percent of the exposed wing area. The balancing devices employed were constant-chord overhang, paddles, rectangular horns, and a triangular horn. A limited amount of data were also obtained on trailing-edge tabs. The aerodynamic balances studied are not necessarily optimum but do show which devices bear promise for reducing hinge moments of trailing-edge flap-type controls.

SYMBOLS

b wing span, ft

c local wing chord measured parallel to plane of symmetry, ft

$\bar{c}$ wing mean aerodynamic chord, $\dfrac{\int_0^{b/2} c^2 dy}{\int_0^{b/2} c\, dy}$, ft

C_D drag coefficient, drag/qS

C_{D_o} minimum drag coefficient

C_h hinge-moment coefficient, hinge moment/$2qM_A$

C_L lift coefficient, lift/qS

C_l rolling-moment coefficient, rolling moment/qSb

C_m pitching-moment coefficient about the 35-percent point of the wing mean aerodynamic chord, pitching moment/$qS\bar{c}$

C_{h_δ} rate of change of hinge-moment coefficient with change in flap deflection for constant angle of attack, $\partial C_h/\partial\delta$, measured at $\delta=0^\circ$, per deg

C_{h_α} rate of change of hinge-moment coefficient with change in angle of attack for constant angle of flap deflection, $\partial C_h/\partial\alpha$, measured at $\alpha=0^\circ$, per deg

C_{m_δ} flap pitching-moment-effectiveness parameter for constant angle of attack, $\partial C_m/\partial\delta$, measured at $\delta=0^\circ$, per deg

[redacted]

l length of body including portion removed to accommodate sting, ft

M Mach number

M_A first moment of area of exposed flap area aft of hinge line of the unbalanced flap, ft^3

q free-stream dynamic pressure, $\frac{1}{2}\rho V^2$, lb/sq ft

R Reynolds number, based on mean aerodynamic chord

r_o maximum body radius, ft

S wing area, including area within body, sq ft

V velocity of free stream, ft/sec

x longitudinal distance from nose of body, ft

y distance perpendicular to vertical plane of symmetry, ft

α angle of attack of wing chord line, deg

δ angle between wing chord and flap chord measured in a plane perpendicular to the flap hinge line, positive for downward deflection with respect to the wing, deg

δ_t angle between flap chord and tab chord, positive for downward deflection with respect to the flap, deg

ρ mass density of air, slugs/cu ft

Subscript

n nominal flap angle

APPARATUS AND MODEL

The experimental investigation was conducted in the Ames 6- by 6-foot supersonic wind tunnel which is a closed-return variable-pressure wind tunnel with a Mach number range from 0.6 to 0.9 and from 1.2 to 2.0. The wind tunnel is described fully in reference 1.

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The model consisted of a wing-fuselage combination employing a wing of triangular plan form of aspect ratio 2 symmetrically mounted on the fuselage. The wing had NACA 0005-63 airfoil sections in streamwise planes. The basic wing-control configuration consisted of the wing equipped with a full-span, constant-chord, unbalanced flap whose area was 14.6 percent of the exposed wing area (see fig. 1(a)). The model is shown mounted in the tunnel in figure 2.

The model incorporated flaps with the following types of aerodynamic balances:

1. Overhang balances:- The basic wing profile was tested in combination with both a round nose flap balance (fig. 1(b)) and a sharp nose flap balance (fig. 1(c)). The sharp nose flap balance was also tested with a modified wing profile (fig. 1(d)), the portion of the wing just ahead of the balance being tapered to a sharp edge. The balances had constant chord equal to 50 percent of the flap chord.

2. Paddle balances:- As shown in figures 1(e), (f), and (g), the paddle balances consisted of sharp-edge rectangular lifting surfaces which were attached to the right flap by booms that extended 1.09 inches outward from the chord plane of the flap. A set of 38-percent-span paddle balances was tested, one of which was attached to the upper surface of the flap and the other to the lower surface of the flap by booms that extended 0.425 inch forward of the flap hinge line (measured to the centroid of the paddle). Data were also obtained for a single 38-percent-span paddle mounted on the upper surface. Two 67-percent-span paddle balances were investigated, one of which was set at 0.425 inch ahead of the control hinge line on the upper surface and the other set at 0.425 inch behind the control hinge line on the upper surface (measured to the centroid of the paddle). The chord of the paddle balances was 0.85 inch in all cases.

3. Horn balances:- Three unshielded rectangular horn balance flaps were investigated with different areas forward of the hinge line. The horn areas forward of the hinge line are 20.3, 13.1, and 6.4 percent of the exposed flap area behind the hinge line of the unbalanced flap (figs. 1(i), (h), and (j), respectively). One triangular horn balance flap was also tested, as shown in figure 1(k). It should be noted that the configurations tested were not symmetrical, one employing the 20.3-percent-area rectangular horn on the right wing panel and the 13.1-percent-area rectangular horn on the left wing panel. (See figs. 1(i) and (h).) The other configuration incorporated the 6.4-percent rectangular horn on the left wing panel and the triangular horn on the right wing panel. (See figs. 1(j) and (k).)

4. Trailing-edge tabs:- Information was also obtained on trailing-edge tabs, a sketch of which is shown in figure 1(l).

The wing, the flaps, the paddles, and the trailing-edge tabs were of solid steel construction. The body used in the present investigation had a fineness ratio of 12.5 based on the length including that portion shown dotted in figure 1.

The forces and moments on the model were measured by an internal strain-gage balance. Flap hinge moments were measured by an electrical strain gage mounted in the body at the wing-body juncture.

TEST AND PROCEDURE

Range of Test Variables

The aerodynamic characteristics of the models as a function of angle of attack were investigated for a range of Mach numbers from 0.6 to 0.9 and from 1.2 to 1.9. Lift, drag, pitching-moment, hinge-moment, and, in some instances, rolling-moment measurements were made at constant flap deflections for angles of attack from about -4° to 18°. The flap deflections were varied from 4° to -28°. In some instances, the full range of flap deflections and angles of attack were not obtained because of structural limitations or other difficulties. The data presented were obtained at a Reynolds number of 4.4 million.

Reduction of Data

The test data have been reduced to standard NACA coefficient form. The pitching moments were calculated about an axis at 35 percent of the mean aerodynamic chord. Factors which affect the accuracy of these results are discussed in the following paragraphs.

Tunnel-wall interference.- Corrections to the subsonic results for the induced effects of tunnel walls resulting from lift on the model were made according to the methods of reference 2. The numerical values of these corrections (which were added to the uncorrected data) are:

$$\Delta\alpha = 0.55\ C_L$$

$$\Delta C_D = 0.0095\ C_L{}^2$$

The corrections to the pitching-moment coefficient were assumed to be negligible.

The effects at subsonic speeds of constriction of the flow by the tunnel walls were taken into account by the method of reference 3. At

[redacted]

a Mach number of 0.9, this correction amounted to a 4-percent increase in the Mach number over that determined from a calibration of the wind tunnel without a model in place.

For the tests at supersonic speeds, the reflection from the tunnel wall of the Mach wave originating at the nose of the body crossed the model only at a Mach number of 1.2. It is believed that the resulting interference effects were insignificant insofar as the incremental effects of flap deflection are concerned and no corrections for tunnel-wall effects were made.

Stream variations.- Tests at subsonic speeds in the Ames 6- by 6-foot supersonic wind tunnel have indicated small stream curvature or inclination in the pitch plane of the model. The longitudinal variation of static pressure in the region of the model is not known accurately at subsonic speeds, but a preliminary survey has indicated that it is less than 2 percent of the dynamic pressure. No correction for the stream curvature or the pressure variation was made. A survey of the air stream at supersonic speeds (ref. 1) has shown stream curvature only in the yaw plane of the model. The effects of this curvature on the measured characteristics of the present model are not known but are believed to be small as in the case of reference 4. The survey also indicated that there is a static pressure variation of sufficient magnitude in the test section to affect the drag results. A correction was added to the measured drag coefficient, therefore, to account for the longitudinal buoyancy caused by this static pressure variation. This correction varied from -0.0008 at a Mach number of 1.3 to +0.0006 at a Mach number of 1.9.

Support interference.- At subsonic speeds, the effects of support interference on the aerodynamic characteristics of the model are not known. For the present model, it is believed that such effects consist primarily of a change in the base pressure of the model. The base pressure was measured, therefore, and the drag data were adjusted to correspond to a base pressure equal to the static pressure of the free stream.

At supersonic speeds, the interference of the sting on the body for a body-sting configuration similar to that of the present model is shown by reference 5 to be confined to a change in base pressure. The above-mentioned adjustment of the drag for base pressure, therefore, was also applied at supersonic speeds.

Precision

The uncertainties involved in determining dynamic pressure and in measuring forces with the strain-gage balance are fully described in

reference 6. The following table lists the uncertainty introduced into each corrected coefficient by the known uncertainties in the measurements:

Quantity	Uncertainty
Lift coefficient	±0.002
Drag coefficient	±.001
Pitching-moment coefficient	±.002
Rolling-moment coefficient	±.001
Hinge-moment coefficient	±.003
Mach number	±.01
Reynolds number	$\pm.03 \times 10^6$
Angle of attack	$\pm.10^\circ$
Flap deflection angle	$\pm.25^\circ$

A further slight inaccuracy in the data as presented graphically is incurred as a result of the deflection of the control surface under load. The effect of this inaccuracy in the data is discussed later.

RESULTS

The experimental data obtained in this investigation are presented in tabular form for the complete range of test variables for the flap balances investigated (tables I through XIII). For the purpose of analysis, a portion of the data is presented in graphical form.

Graphical data which indicate the variation of the pitching-moment and the hinge-moment coefficients with flap deflection for given angles of attack and the variation of the pitching-moment and the hinge-moment coefficients with angle of attack for given flap deflections are presented in figures 3 through 14 for the flap balances investigated. The data are presented only for Mach numbers of 0.6, 0.9, 1.3, and 1.9, since these are representative Mach numbers. It should be emphasized that the moment results are presented for two flaps deflected for the unbalanced flap and the overhang balances (see figs. 3 through 6) and for one flap deflected for the paddle balances and the horn balances. (See figs. 7 through 14.)

The hinge-moment coefficients for the unbalanced flap and the overhang balances are based on twice the moment of area of two flaps, whereas the hinge-moment coefficients for the paddle balances and the horn balances are based on twice the moment of area of one flap. The flap angles noted in figures 3 through 14 are nominal settings of the control surface. The exact flap settings can be obtained in tables I through XII.

The pitching-moment-effectiveness parameter, C_{m_δ}, and the hinge-moment parameters, C_{h_α} and C_{h_δ}, are presented as a function of Mach number in figures 15 and 16 for the various flap balances. The results presented (measured at $C_L=0$) are for δ equal to zero for the parameters, C_{m_δ} and C_{h_δ}, and for α equal to zero for the parameter, C_{h_α}. The experimental values of C_{m_δ}, C_{h_δ}, and C_{h_α} in the supersonic speed range are compared with the theoretical results obtained from references 7 and 8. Also presented in figures 15(a) through (h) is the minimum drag coefficient as a function of Mach number. The results for the unbalanced flap are presented in each case for comparison.

DISCUSSION

In the discussion to follow, two types of data are utilized to point out the aerodynamic properties of the control flap with various balances. One set of data noted as basic characteristics (figs. 3 through 14) show the variation of hinge moment and pitching moment with flap deflection and angle of attack. Since these data are primarily useful in noting nonlinear hinge moments and pitching moments, the aforementioned deflection of the control surface under load is of little importance and no correction to the results was made. The other set of data is noted control-surface parameters (figs. 15 and 16) which consist essentially of the measured slopes of the pitching-moment and hinge-moment curves. These parameters are useful in evaluating the balance effectiveness of the various flap balances. Examination of the results show that the error in these parameters, due to omitting the correction resulting from deflection of the flap under load, is insignificant. In some instances at subsonic speed, the hinge-moment parameters are not accurate indications of the control-surface characteristics because of the nonlinear nature of the curves. These cases will be discussed in the text.

Basic Characteristics

Unbalanced flap.- The data obtained from tests of the unbalanced flap are presented in figure 3. For the Mach number range investigated, the data show the variation of the pitching-moment coefficients and the hinge-moment coefficients with angle of attack and with angle of flap deflection to be essentially linear for flap settings up to approximately -12°.

Overhang balances.- Overhang balances have been widely used in previous airplane designs, especially for aircraft designed for subsonic Mach numbers. The usefulness of such balances is somewhat in doubt at

transonic and supersonic speeds; however, the present investigation was undertaken because of the simplicity of such balances and since they permit mass balance of the flap. Results are presented for three overhang balances in figures 4, 5, and 6. The data show generally a linear variation of the pitching-moment coefficient with flap deflection and with angle of attack throughout the speed range investigated. Modifications to the wing trailing edge or flap nose shape have small influence on these characteristics.

At subsonic speeds, the use of flap overhang to provide aerodynamic balance results in nonlinear hinge moments for any of the combinations of wing trailing-edge profiles and flap nose shapes tested. It is noteworthy, however, that despite the nonlinearities exhibited, the results reveal generally closely balanced hinge moments for a small range of flap settings. (See figs. 4(a) and (b), 5(a) and (b), and 6(a) and (b).)

At supersonic speeds, the results show that the flap nose shape does not have a significant effect on the hinge-moment characteristics but that the wing profile has a rather large influence on the hinge-moment characteristics at angles of attack. The data show that regardless of flap nose shape (figs. 4(c) and (d), and 5(c) and (d)), the controls exhibit generally a linear variation of hinge-moment coefficient with flap deflection at moderate deflection angles ($\delta < 8^\circ$) throughout the angle-of-attack range, but show no appreciable aerodynamic balance. As the angle of deflection is increased negatively, however, the balancing portion of the flap becomes more effective and produces some reduction in the hinge-moment coefficients. This can be explained, at least for the sharp nose flap, by the fact that the flow is probably separating from the wing forward of the flap and preventing the balancing portion of the flap from being fully effective at the low flap angles.

Similar hinge-moment characteristics at 0° angle of attack (see figs. 6(c) and (d)) are noted for the modified wing profile. At the higher angles of attack ($\alpha = 8^\circ$, 16°), however, the influence of the flow from the wing is apparently different, and a measure of aerodynamic balance is realized throughout the range of flap angles. Although no detailed analysis of the flow field is considered here, the nature of the flow in the vicinity of the balance may be analogous to the flow discussed in reference 9. The data of reference 9 show that at angles of attack of the order of 8°, the flow on the lower surface of the wing experiences no separation but expands slightly around the blunt trailing edge of the wing and impinges on the balance portion of the flap. The resulting shock and the associated high-pressure peak occurs, therefore, forward of the control hinge line, thereby affecting a substantial balancing moment.

[redacted]

Paddle balances.- Paddle balances appear to have certain useful properties for transonic and supersonic aircraft. For this reason, a number of balances of this type were investigated. Data are presented for these balances in figures 7 through 10. The results show that, in general, the variation of the pitching-moment coefficients with flap deflection and with angle of attack remain reasonably linear throughout the Mach number range for all the paddle configurations tested.

The results reveal generally nonlinear variations of the hinge-moment coefficients with flap deflection at subsonic speeds. The paddles mounted forward of the hinge line (see figs. 7(a) and (b), 8(a) and (b), and 9(a) and (b)) show closely balanced hinge moments at small deflection angles ($\delta < 4^\circ$), followed by rather large underbalanced hinge moments at the higher flap settings. The paddle mounted behind the control hinge line (see figs. 10(a) and (b)) shows rather large underbalanced hinge moments throughout the range of flap angles. At supersonic speeds, all the paddle configurations tested show generally linear variations of the hinge-moment coefficients with flap deflection and with angle of attack.

Horn balances.- The results obtained for the three unshielded rectangular horns and a triangular horn balance are presented in figures 11 through 14. The data do not reveal any significant nonlinear variations of the pitching-moment coefficients with flap deflection or with angle of attack for the Mach numbers investigated.

The results show nonlinear hinge moments at subsonic speeds for the rectangular horn balances that may be undesirable (see figs. 11(a) and (b), 12(a) and (b), and 13(a) and (b)). Examination of the data reveals that the nonlinear character of the hinge-moment curves becomes less severe as the size of the horn is reduced from 20.3 percent to 6.4 percent. The triangular horn balance shows reasonably linear hinge-moment characteristics at subsonic speeds (figs. 14(a) and (b)). At supersonic speeds, no unusual nonlinearities in the hinge-moment curves are evident for any of the horn balances investigated (see figs. 11(c) and (d), 12(c) and (d), 13(c) and (d), and 14(c) and (d)).

Trailing-edge tab.- The results are not presented in basic data form for the trailing-edge tabs investigated but may be obtained from the tabulated data of table XIII if needed.

Control-Surface Parameters

Unbalanced flap.- The control-surface parameters for the unbalanced flap are presented in figure 15(a) as a function of Mach number. The results show a significant effect of Mach number on both pitching-moment

and hinge-moment characteristics. As the Mach number is changed from 0.9 to 1.2, the pitching-moment effectiveness is reduced by roughly 50 percent. As has been shown in previous investigations (e.g., ref. 10), this large reduction in control effectiveness combined with the variation of the static margin with Mach number (approximately 10-percent mean aerodynamic chord increase as the Mach number is increased from subsonic to supersonic speeds) would result in considerably higher flap settings for longitudinal balance ($C_m = 0$) at a given lift coefficient at supersonic speeds than are necessary at subsonic speeds.

The results show also large increases in values of the hinge-moment parameters as the Mach number is increased from subsonic to supersonic speeds. It is worthy of note that, at subsonic speeds for a center-of-gravity location of 35-percent mean aerodynamic chord, the ratio of $C_{h_\alpha}/C_{h_\delta}$, which is one of the parameters defining the stick-free stability, is such that a configuration employing this flap for longitudinal control would be unstable stick free. The large rearward shift in the neutral point that occurs through the transonic speed range insures a wide margin of stick-free stability at supersonic speeds.

Examination of the drag results reveals the usual increase in minimum drag coefficient that occurs for an aspect ratio 2 triangular wing as the Mach number is increased from subsonic to supersonic speeds.

A comparison of the theoretical and experimental values of the pitching-moment and hinge-moment parameters in the supersonic speed range shows that while theory predicts reasonably well the variation of the parameters C_{m_δ}, C_{h_δ}, and C_{h_α} with Mach number, it does not accurately predict the absolute values. The data show generally somewhat lower values of the pitching-moment-effectiveness parameter, C_{m_δ}, than those predicted by the linear theory. As has been shown previously for a configuration similar to the one under consideration (ref. 11), this reduction in C_{m_δ} from the theoretically predicted values results primarily from a loss in lift over the flap rather than a forward shift in the center of pressure of the loading. The theory also overestimates the magnitude of the hinge-moment parameters, C_{h_α} and C_{h_δ}, the experimental values being approximately 80 percent of the theoretical values.

Overhang balances.- The characteristics of the various 50-percent overhang balances are presented in figures 15(b), (c), and (d) as a function of Mach number and compared with those of the unbalanced flap. The results show that flap overhang has no significant effect on the pitching-moment-effectiveness parameter, C_{m_δ}, at subsonic speeds, and the effect at supersonic speed is generally small except for the configuration employing the modified wing profile which produces somewhat higher values of C_{m_δ} than those of the unbalanced flap. (See fig. fig. 15(d).)

The data show significant reductions in both hinge-moment parameters, C_{h_α} and C_{h_δ}, at subsonic speeds. The round nose flap balance exhibits small underbalanced values of C_{h_α} and slightly overbalanced values of C_{h_δ}. (See fig. 15(b).) Alteration of the nose shape from round to sharp results in less balance effectiveness. (See fig. 15(c).) A modification to the wing profile consisting of tapering the wing to a sharp edge just ahead of the balance results in closely balanced values of both C_{h_α} and C_{h_δ}. (See fig. 15(d).)

At supersonic speeds, the results show that flap overhang produces some reduction in C_{h_α} but has little influence on C_{h_δ}, the values of C_{h_δ} for the balanced flaps being of the same magnitude as those of the unbalanced flap. (See figs. 15(a), (b), and (c).) The parameters presented are not significantly affected by modification of either the wing profile or flap nose shape.

The relative ineffectiveness of the sharp nose flap overhang in reducing C_{h_δ} at supersonic speeds as compared with the large reductions in C_{h_δ} noted at subsonic speeds is probably due primarily to the difference in loading over the deflected flap at subsonic and supersonic speeds. At subsonic speeds, the high pressure peak inherent in the loading at the leading edge of the flap acts over the portion of the control forward of the hinge line, thereby bringing into play a large balancing moment. At supersonic speeds, practically no balancing moment is realized at small flap angles because the flow from the wing is separating and preventing the development of any load on the balancing portion of the flap. The exception to this is the flap balance incorporating the modified wing profile where the character of the flow at supersonic speeds at angles of attack is somewhat different and some loading is developed on the balancing portion of the flap. The reason for the ineffectiveness of the round nose flap in reducing C_{h_δ} at supersonic speeds is not known.

It is evident from the foregoing discussion that although a 50-percent-chord balance is adequate to balance reasonably well the hinge moments at subsonic speeds, substantially more aerodynamic balance is necessary at supersonic speeds. Previous results (refs. 9 and 11) have shown that greater balancing action may be attained at supersonic speeds with this type of balance either by increasing the amount of flap overhang or by extending the gap between the wing and the control surface for a given amount of aerodynamic balance. (The gap effect is discussed in detail in ref. 9.) Either of these modifications would likely result in overbalance at subsonic speeds.

Examination of the minimum drag results show that the shape of the wing profile just ahead of the flap is an important parameter in the consideration of low-drag configurations. The configurations employing the true-contour wing profile reveal a maximum increase in the minimum

drag coefficient above that of the unbalanced flap of approximately 7 percent (see figs. 15(b) and (c)). The model incorporating the modified wing profile shows increases in the minimum drag coefficient of approximately 15 percent at supersonic speeds. (See fig. 15(d).)

A comparison of the theoretical and experimental values of the parameters C_{m_δ} and C_{h_δ} at supersonic speeds shows that the theory predicts the variation of the parameters with Mach number but not the absolute values. The results show that the theory overestimates the pitching-moment-effectiveness parameter, C_{m_δ}, by approximately 30 percent. The data show further that, unlike the results of the unbalanced flap wherein the theory overpredicts the values of C_{h_δ}, the predicted values of C_{h_δ} for the balanced controls fall somewhat below the measured values. This discrepancy between theory and experiment for the sharp nose flaps is probably due primarily to the previously mentioned fact that the flow from the wing is separating and preventing the balancing portion of the flap from being fully effective at low flap settings. The results show that the theory overpredicts the values of C_{h_α}.

Paddle balances.- Before presenting the control-surface parameters for the paddle balances, it is perhaps worthwile to give brief mention to the fundamental ideas involved. The virtue of this type of balance is that at supersonic speeds, where it is most needed, the paddle has a powerful effect in reducing the rate of change of the hinge-moment coefficient with flap deflection but has little influence on the rate of change of the hinge-moment coefficient with angle of attack. The powerful balancing action at supersonic speeds is brought about as a result of the shock-expansion interference between the balance and the control surface. At negative control deflections, the lower surface of the upper paddle propagates expansion waves which impinge on the main control surface. The resulting loss in lift on the control causes the center of pressure of the load on the control surface to shift forward, thereby reducing the moment about the hinge line. A paddle mounted on the lower surface of the flap acts in an analogous manner by virtue of the compression waves emitted from its upper surface. A control employing a paddle balance suffers no loss in over-all lift since the paddle carries lift of the order of that lost on the control surface.

The foregoing discussion is admittedly a simplification of the flow phenomena involved but is believed to describe the underlying principle of the paddle balance to a first approximation. Certain other effects, such as the contribution of the lift, drag, and pitching moment of the paddle alone to the flap moment, the effect of the flow angularity over the wing ahead of the paddle, the interaction between the shock

from the wing-flap juncture and the shock-expansion interference, and, in some instances, the choking effect between the paddle and the flap, are known to exist. It is difficult, however, to evaluate the individual effects of such factors and no attempt was made to do so in the present analysis.

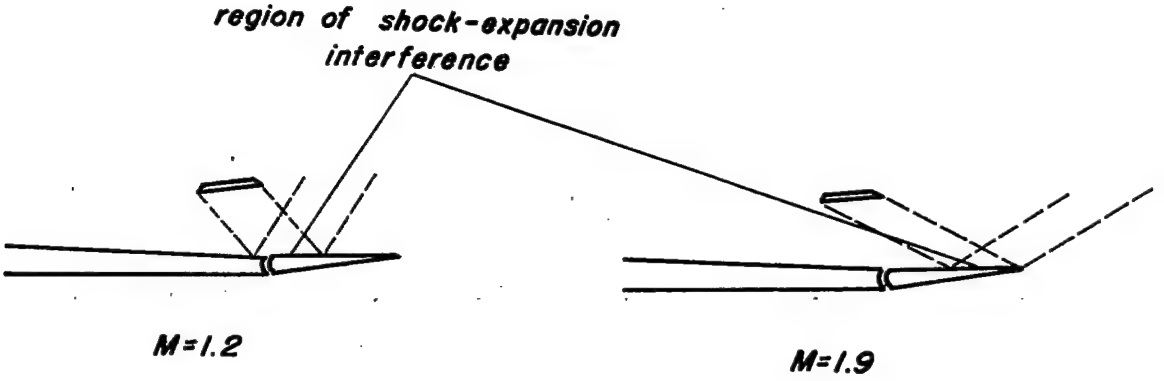
To aid in evaluating the properties of the various paddle balances investigated, figures 15(e), (f), (g), and (h) were prepared which compare the parameters C_{m_δ}, C_{h_δ}, C_{h_α}, and C_{D_o} with those of the unbalanced flap. These data show that the addition of the paddle balances forward of the hinge line (see figs. 15(e), (f), and (g)) results in slight reductions in the flap effectiveness parameter, C_{m_δ}, at the high subsonic Mach numbers but has negligible influence on the flap effectiveness at supersonic speeds.

These paddles (mounted forward of the hinge line) provide large reductions in the hinge-moment parameter, C_{h_δ}, throughout the speed range investigated but have little influence on C_{h_α}. The results of figure 15(e) show that a 38-percent-span paddle mounted on the upper and lower surfaces of the control overbalances C_{h_δ} at Mach numbers below 0.8. At a Mach number of 1.2, the unbalanced values of C_{h_δ} are reduced by approximately 50 percent; as the Mach number is increased above 1.2, the paddles indicate progressively more balancing action until at a Mach number of 1.9 a reduction in C_{h_δ} of approximately 80 percent is realized.

As shown in figure 15(f), removal of the paddle from the lower surface results in less aerodynamic balance, but material reductions in C_{h_δ} are still realized throughout the speed range.

A 67-percent-span paddle attached to the upper surface of the control forward of the hinge line is shown by the results of figure 15(g) to reveal essentially the same balance effectiveness as that noted for the semispan paddle balance on the upper and lower surfaces.

The increased balance effectiveness shown by each of the paddles with increasing Mach number at supersonic speeds is explained as follows: The paddles are so located on the flap that at a Mach number of 1.2 the region of shock-expansion interference is restricted to the forward portion of the flap (see sketch 1).

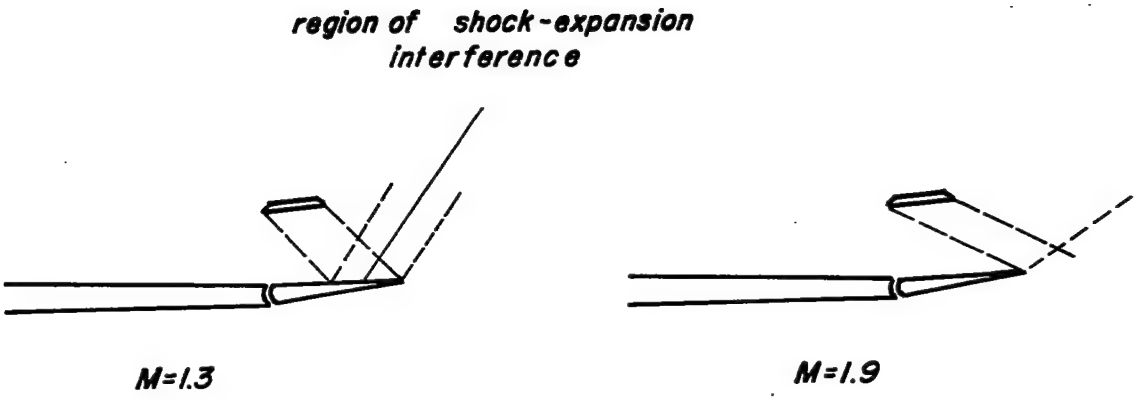


Sketch (1) Sketch (2)

As the Mach number is increased, however, the region of influence of the paddle is gradually shifted toward the trailing edge of the flap (see sketch 2), and the resulting loss in lift brings about a progressively forward shift in the center of pressure of the load on the control surface.

The ability of the paddle to further reduce the hinge-moment parameter, C_{h_δ}, is restricted to that Mach number (in this case M=1.9) wherein the disturbance from the trailing edge of the paddle strikes the trailing edge of the control.

This conclusion is substantiated by the results of figure 15(h) which presents the data for a 67-percent-span paddle balance mounted behind the control hinge line. (This paddle has negligible influence on the subsonic hinge-moment characteristics.) The location of the paddle is such that at a Mach number of 1.3, the disturbance from the paddle trailing edge just strikes the control at the trailing edge (see sketch 3).



Sketch (3)

Sketch (4)

A reduction in C_{h_δ} of the order of that realized with the 67-percent-span paddle mounted forward of the hinge line is affected at this Mach number. As the Mach number is increased above 1.3, however, and the region of shock-expansion interference is diminished (see sketch 4), the balance effectiveness of the paddle decreases until at Mach numbers of 1.7 and above the values of C_{h_δ} are greater than those of the unbalanced flap. In this speed range ($M > 1.3$) a considerable increase in the pitching-moment-effectiveness parameter, C_{m_δ}, is realized, since the paddle balance is no longer effecting a large reduction in lift on the control surface. The effectiveness at a Mach number of 1.9 is approximately twice as much as that of the unbalanced flap. The fact that this increase in effectiveness is somewhat greater than would normally be expected is probably due primarily to thickness effects of the paddle.

Examination of the minimum drag coefficients show large increases in the drag coefficient throughout the speed range due to the addition of the paddle balances. Though the drag increment is admittedly large, several points should be considered before discarding paddle balances from a drag standpoint. The penalty in drag must be weighed against the beneficial effects that the paddles have on the hinge-moment characteristics and the resulting smaller size of the power boost system required to handle the control forces. It should also be pointed out that the maximum thickness of the paddles is rather large (10 percent of the paddle chord) and that some improvement in the drag characteristics could be realized by use of thinner sections.

Horn balances.- The control-surface parameters are presented in figures 15(i), (j), (k), and (l) as a function of Mach number for the various unshielded horn balances tested and compared with the results

of the unbalanced flap. The results show that in general throughout the speed range investigated, the rectangular horn balances provide improvements in the pitching-moment effectiveness, C_{m_δ}, the magnitude of the improvement being dependent on the size of the horn. The triangular horn has practically no effect on the pitching-moment effectiveness.

The effect of horn size on the balance effectiveness can be seen by a comparison of the results of figures 15(i), (j), and (k). The 20.3-percent rectangular horn provides material reductions in both C_{h_α} and C_{h_δ} at supersonic speeds but overbalances C_{h_α} to a large degree at subsonic speed. Reduction in horn size to 13.1 percent (see fig. 15(j)) results in somewhat less aerodynamic balance at supersonic speeds and reduces to some extent the large overbalanced values of C_{h_α} at subsonic speeds. A further reduction in horn size to 6.4 percent (see fig. 15(k)) results in closely balanced values of C_{h_α} at subsonic speeds but only small reductions in the hinge-moment parameters at supersonic speeds. It should be emphasized here that the nonlinear variation of the hinge-moment coefficients with angle of attack for the rectangular horns at subsonic speeds (see figs. 11(a) and (b), 12(a) and (b), and 13(a) and (b)) is such that the parameter, C_{h_α}, is not a reliable indication of the balance effectiveness. The 5.5-percent-area triangular horn balance (see fig. 15(l)) provides closely balanced values of C_{h_α} at subsonic speeds but only slight reductions in the hinge-moment parameters at supersonic speeds.

The drag results are not presented graphically for the horn balance flaps because of the previously mentioned asymmetry of the model. Some indication of the magnitude of the drag increment resulting from the horn balances can be obtained, however, by examination of the results of the configuration incorporating the 20.3-percent-area rectangular horn and the 13.1-percent-area rectangular horn. (See table IX.) These data show a maximum increase in the minimum drag coefficient of the order of 10 percent over the speed range investigated.

The experimental values of C_{m_δ} and C_{h_δ} for the rectangular and triangular horns are compared with the linear theory in figures 15(i), (j), (k), and (l). These results show that again the theory predicts reasonably well the variation of the parameters with Mach number but not the absolute values. The experimental values of C_{m_δ} fall somewhat below the predicted values for all the horn balances investigated with the results of the triangular horn showing the closer agreement between theory and experiment. For all the horn balances investigated, the experimental values of C_{h_δ} fall considerably below those predicted by the theory.

Trailing-edge tabs.- During the present investigation, a limited amount of data was obtained on trailing-edge tabs. The results are

summarized in figure 16 in the form of C_{m_δ} and C_{h_δ} as a function of Mach number and compared with the data of the unbalanced flap. The results presented are for a tab geared such that it is deflected downward at the same rate that the flap is deflected upward. The displacement of the tab brings into play a moment assisting the deflection of the flap and a measure of aerodynamic balance is attained. The results reveal a reduction in pitching-moment effectiveness, C_{m_δ}, of approximately 20 percent at subsonic speeds due to deflecting the tab and a reduction of 10 to 15 percent at supersonic speeds. The tab is highly effective in reducing the hinge-moment parameter, C_{h_δ}, at subsonic speeds (approximately 50-percent reduction) but results in reductions in C_{h_δ} at supersonic speeds of only 10 percent.

CONCLUSIONS

The following general conclusions are indicated from a study of the basic characteristics:

1. For the Mach number range investigated, the data show essentially linear pitching-moment characteristics for the flap balances investigated.

2. Most of the flap balances had hinge-moment characteristics that were nonlinear at subsonic speeds. At supersonic speeds, no outstanding nonlinearities in the hinge moments were evident.

A comparison of the control-surface parameters for the various flap balances with those of the unbalanced flap revealed the following:

1. The incorporation of the 50-percent-chord overhang balance had no significant influence on the pitching-moment effectiveness throughout the speed range investigated. This type of balance provided material reductions in the hinge-moment parameters at subsonic speeds but was relatively ineffective in providing balance at supersonic speeds at low flap settings. The modifications of the wing profile and flap nose shape had only small influence on either the effectiveness or hinge-moment parameters. The results showed that in some instances the configurations employing the overhang balances had minimum drag coefficients that were 15 percent greater than those of the configuration employing the unbalanced flap.

2. Addition of the paddle balances to the control had only small effects on the pitching-moment effectiveness over the speed range investigated. The location of the paddle with respect to the control hinge line had a large effect on the balancing action of the device. The paddle balances mounted forward of the hinge line showed material

reductions in the hinge-moment parameter, C_{h_δ}, throughout the speed range but little influence on C_{h_α}. At supersonic speeds, the balance effectiveness of the paddles increased with increasing Mach number. The paddle mounted behind the hinge line showed negligible effect on the hinge-moment characteristics at subsonic speeds; at low supersonic Mach numbers material reductions in C_{h_δ} were realized, but the balance effectiveness of the paddle decreased with increasing Mach number. Addition of the paddles resulted in large increases in the minimum drag coefficient.

3. The unshielded rectangular horn balances provided slight improvements in the pitching-moment effectiveness over the Mach number range tested. The 20.3-percent rectangular horn provided a large reduction in both hinge-moment parameters, C_{h_α} and C_{h_δ}, at supersonic speeds but resulted in highly overbalanced values of C_{h_α} at subsonic speeds. Decreasing the horn size to 6.4 percent resulted in reasonably good balance at subsonic speeds ($C_{h_\alpha} \approx 0$) but produced only small reductions in the hinge-moment parameters at supersonic speeds. The 5.5-percent triangular horn showed similar balance effectiveness, reducing C_{h_α} to approximately zero at subsonic speeds but decreasing only slightly the hinge-moment parameters at supersonic speeds.

4. The results obtained for a trailing-edge tab geared for equal and opposite deflection to that of the control surface showed that the tab was highly effective in reducing the values of C_{h_δ} at subsonic speeds but provided only small reductions in C_{h_δ} at supersonic speeds. A loss in control effectiveness occurred throughout the speed range due to deflecting the tab.

5. A comparison of the linear theory with the experimental values of the pitching-moment-effectiveness parameter and the hinge-moment parameters was made in the supersonic speed range for the unbalanced flap, the overhang balances, and the horn balances. The results showed that the theory predicted reasonably well the variation of the parameters with Mach number but not the absolute values.

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REFERENCES

1. Frick, Charles W., and Olson, Robert N.: Flow Studies in the Asymmetric Adjustable Nozzle of the Ames 6- by 6-Foot Supersonic Wind Tunnel. NACA RM A9E24, 1949.

2. Glauert, H.: Wind Tunnel Interference on Wings, Bodies, and Airscrews. R.&M. No. 1566, British A.R.C., 1933.

3. Herriot, John G.: Blockage Corrections for Three-Dimensional Flow Closed-Throat Wind Tunnels, With Consideration of the Effect of Compressibility. NACA Rep. 995, 1950. (Supersedes NACA RM A7B28.)

4. Lessing, Henry C.: Aerodynamic Study of a Wing-Fuselage Combination Employing a Wing Swept Back 63° - Effect of Sideslip on Aerodynamic Characteristics at a Mach Number of 1.4 With the Wing Twisted and Cambered. NACA RM A50F09, 1950.

5. Perkins, Edward W.: Experimental Investigation of the Effects of Support Interference on the Drag of Bodies of Revolution at a Mach Number of 1.5. NACA TN 2292, 1951.

6. Hall, Charles F., and Heitmeyer, John C.: Aerodynamic Study of a Wing-Fuselage Combination Employing a Wing Swept Back 63° - Characteristics at Supersonic Speeds of a Model With the Wing Twisted and Cambered for Uniform Load. NACA RM A9J24, 1950.

7. Tucker, Warren A., and Nelson, Robert L.: Theoretical Characteristics in Supersonic Flow of Two Types of Control Surfaces on Triangular Wings. NACA Rep. 939, 1949. (Supersedes NACA TN 1660.)

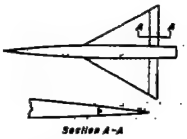
8. Coale, Charles W.: Supersonic Characteristics of Rectangular Horn Balanced Ailerons. Douglas Rep. SM-13718, 1950.

9. Mueller, James N., and Czarnecki, K. R.: Preliminary Investigation at a Mach Number of 2.40 of the Effectiveness of Leading-Edge Balance on Flap-Type Controls. NACA RM L52F10, 1952.

10. Boyd, John W.: Aerodynamic Characteristics of Two 25-Percent-Area Trailing-Edge Flaps on an Aspect Ratio 2 Triangular Wing at Subsonic and Supersonic Speeds. NACA RM A52D01c, 1952.

11. Thomas, G. B.: Analysis of Supersonic Wind-Tunnel Tests of Balanced Aileron Configurations for the NIKE Guided Missile. Douglas Rep. SM-13796, 1950.

TABLE I.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH AN UNBALANCED FLAP. DATA FOR TWO FLAPS. $R = 4.4 \times 10^6$



(a) Nominal δ, 4°

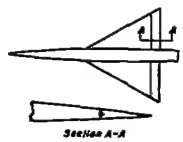
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.18	-0.111	0.0116	-0.024	-0.0290	3.94	0.90	-0.45	0.064	0.0085	-0.042	-0.0900	3.78	1.50	-0.52	-0.004	0.0148	-0.010	-0.0779	3.76
	-2.05	-.019	.0085	-.029	-.0465	3.91		.57	.112	.0103	-.044	-.1060	3.74		.48	.040	.0152	-.017	-.1027	3.68
	-.99	.029	.0077	-.031	-.0565	3.89		1.09	.133	.0117	-.045	-.1060	3.74		1.01	.063	.0162	-.020	-.1151	3.65
	-.46	.052	.0078	-.032	-.0622	3.88		2.15	.179	.0153	-.047	-.1100	3.73		2.04	.106	.0191	-.026	-.1361	3.58
	.55	.094	.0091	-.033	-.0667	3.88		4.27	.289	.0273	-.057	-.1250	3.69		4.09	.190	.0284	-.039	-.1763	3.46
	1.08	.116	.0105	-.033	-.0724	3.87		6.41	.412	.0492	-.071	-.1430	3.65		6.14	.275	.0432	-.052	-.2114	3.35
	2.12	.161	.0135	-.035	-.0797	3.85		8.54	.533	.0818	-.086	-.1700	3.58		8.19	.357	.0640	-.064	-.2453	3.25
	4.22	.252	.0225	-.039	-.0971	3.82									10.25	.437	.0905	-.076	-.2816	3.14
	6.31	.349	.0386	-.045	-.1130	3.79	1.20	-4.11	-.171	.0236	.010	-.0468	3.86							
	8.42	.447	.0621	-.048	-.1260	3.77		-2.06	-.071	.0163	-.006	-.0918	3.74	1.70	-4.10	-.144	.0230	.012	.0068	4.02
	10.53	.552	.0954	-.050	-.1537	3.72		-1.05	-.022	.0145	-.014	-.1202	3.65		-2.05	-.066	.0162	.001	-.0332	3.89
	12.43	.647	.1330	-----	-.1695	3.69		-.52	.004	.0141	-.017	-.1331	3.62		-1.05	-.028	.0148	-.005	-.0520	3.84
	14.77	.774	.1916	-.055	-.1878	3.66		.48	.053	.0147	-.024	-.1615	3.54		-.52	-.008	.0145	-.008	-.0614	3.81
	16.88	.877	.2504	-.055	-.2034	3.63		1.01	.080	.0160	-.029	-.1707	3.51		.47	.033	.0150	-.014	-.0827	3.74
	17.94	.927	.2830	-.053	-.2132	3.61		2.04	.129	.0193	-.036	-.1918	3.43		1.00	.053	.0157	-.017	-.0938	3.71
								4.09	.230	.0296	-.053	-.2313	3.34		2.03	.093	.0182	-.022	-.1142	3.69
0.80	-4.21	-.117	.0128	-.025	-.0340	3.92		6.15	.337	.0473	-.070	-.2670	3.24		4.08	.171	.0267	-.034	-.1517	3.53
	-2.07	-.017	.0085	-.031	-.0503	3.88		7.85	.424	.0677	-.086	-.2982	3.15		6.13	.246	.0403	-.045	-.1872	3.42
	-.99	.033	.0080	-.034	-.0631	3.85									8.17	.322	.0592	-.055	-.2203	3.32
	-.45	.058	.0083	-.036	-.0678	3.84	1.30	-4.11	-.164	.0257	.011	-.0239	3.92		10.23	.391	.0826	-.064	-.2475	3.24
	.56	.102	.0098	-.037	-.0736	3.83		-2.06	-.071	.0186	-.003	-.0673	3.80		12.27	.448	.1082	-.073	-.2748	3.16
	1.09	.125	.0112	-.038	-.0772	3.82		-1.05	-.026	.0167	-.009	-.0913	3.73							
	2.14	.170	.0146	-.040	-.0865	3.80		-.52	-.002	.0164	-.013	-.1019	3.70	1.90	-4.08	-.131	.0223	.010	.0106	4.03
	4.25	.268	.0251	-.048	-.1051	3.76		.48	.045	.0169	-.019	-.1294	3.62		-2.04	-.061	.0162	.001	-.0265	3.92
	6.36	.376	.0434	-.056	-.1231	3.72		1.01	.070	.0180	-.023	-.1391	3.59		-1.04	-.027	.0150	-.004	-.0432	3.87
	8.49	.491	.0730	-.062	-.1406	3.68		2.04	.116	.0210	-.030	-.1622	3.52		-.52	-.009	.0147	-.007	-.0520	3.84
	10.60	.578	.1067	-.059	-.1774	3.60		4.09	.208	.0308	-.045	-.2038	3.40		.47	.027	.0151	-.011	-.0693	3.79
	12.73	.686	.1523	-.067	-.2091	3.53		6.15	.304	.0471	-.059	-.2437	3.26		.99	.046	.0157	-.014	-.0789	3.76
	14.83	.761	.1981	-.063	-.2255	3.49		8.21	.398	.0704	-.074	-.2836	3.16		2.03	.082	.0179	-.019	-.0965	3.71
	16.95	.874	.2619	-.071	-.2381	3.47		9.03	.437	.0819	-.080	-.3013	3.11		4.07	.150	.0254	-.028	-.1304	3.61
															6.11	.218	.0375	-.037	-.1637	3.51
0.90	-4.23	-.121	.0137	-.027	-.0460	3.88	1.50	-4.10	-.153	.0239	.012	-.0060	3.98		8.16	.286	.0543	-.046	-.1934	3.42
	-2.07	-.016	.0086	-.035	-.0700	3.83		-2.05	-.068	.0169	-.001	-.0470	3.85		10.20	.349	.0752	-.054	-.2229	3.33
	-.99	.037	.0081	-.040	-----	3.75		-1.05	-.025	.0152	-.007	-.0685	3.79		12.25	.411	.1004	-.061	-.2477	3.25
															14.29	.471	.1298	-.067	-.2755	3.17

(b) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.15	-0.148	0.0130	-0.009	0.0074	2.01	0.90	-0.50	0.018	0.0066	-0.021	-0.0361	1.91	1.50	-0.53	-0.014	0.0141	-0.004	-0.0308	1.90
	-2.09	-.057	.0090	-.013	-.0089	1.98		.53	.067	.0076	-.024	-.0426	1.89		.47	-.028	.0143	-.010	-.0530	1.83
	-1.03	-.012	.0070	-.015	-.0178	1.96		1.07	.089	.0086	-.024	-.0460	1.89		1.00	.051	.0152	-.013	-.0641	1.80
	-.50	.010	.0070	-.016	-.0223	1.96		2.12	.140	.0118	-.028	-.0558	1.86		2.04	.094	.0177	-.019	-.0871	1.73
	.51	.053	.0080	-.018	-.0297	1.94		4.24	.247	.0224	-.037	-.0722	1.82		4.09	.179	.0263	-.032	-.1287	1.60
	1.04	.075	.0090	-.018	-.0357	1.93		6.37	.362	.0413	-.048	-.0887	1.78		6.14	.264	.0405	-.045	-.1654	1.49
	2.10	.119	.0110	-.020	-.0431	1.92		8.50	.474	.0707	-.055	-.1193	1.71		8.20	.349	.0611	-.057	-.2003	1.38
	4.19	.210	.0180	-.024	-.0580	1.89									10.25	.426	.0867	-.069	-.2370	1.27
	6.28	.308	.0330	-.029	-.0742	1.87	1.20	-4.11	-.187	.0237	.021	.0229	2.06							
	8.39	.406	.0520	-.033	-.0891	1.84		-2.05	-.085	.0155	.005	-.0184	1.94	1.70	-4.09	-.152	.0230	.018	.0470	2.14
	10.49	.512	.0860	-.034	-.1175	1.79		-1.01	-.039	.0135	-.002	-.0422	1.88		-2.04	-.074	.0159	.006	.0094	2.02
	12.61	.616	.1270	-.033	-.1353	1.76		-.55	-.016	.0131	-----	-.0532	1.84		-1.00	-.035	.0142	.001	-.0086	1.97
	14.72	.721	.1750	-.036	-.1532	1.73		.48	.035	.0133	-.013	-.0817	1.76		-.53	-.016	.0139	-.002	-.0222	1.93
	16.85	.841	.2370	-.040	-.1707	1.70		1.00	.059	.0144	-.017	-.0927	1.73		.47	.023	.0141	-.008	-.0409	1.87
	17.90	.891	.2680	-.039	-.1814	1.68		2.04	.110	.0172	-.024	-.1101	1.68		1.00	.044	.0147	-.011	-.0520	1.84
								4.10	.210	.0265	-.040	-.1569	1.55		2.03	.084	.0169	-.017	-.0724	1.77
0.80	-4.18	-.157	.0146	-.008	.0035	2.00		6.15	.314	.0430	-.057	-.1982	1.43		4.08	.161	.0249	-.028	-.1108	1.66
	-2.11	-.057	.0087	-.014	-.0154	1.96		8.21	.419	.0675	-.074	-.2413	1.31		6.13	.237	.0388	-.039	-.1463	1.55
	-1.04	-.009	.0074	-.017	-.0248	1.94		8.94	.457	.0780	-.081	-.2579	1.26		8.18	.312	.0561	-.049	-.1812	1.44
	-.50	.014	.0072	-.019	-.0296	1.93									10.23	.381	.0790	-.059	-.2076	1.36
	.52	.060	.0080	-.020	-.0367	1.91	1.30	-4.10	-.177	.0260	.020	.0375	2.10		12.28	.452	.1070	-.068	-.2416	1.26
	1.05	.081	.0090	-.021	-.0414	1.90		-2.05	-.082	.0179	.006	-.0045	1.98							
	2.11	.130	.0118	-.023	-.0497	1.89		-1.00	-.038	.0158	-.001	-.0277	1.91	1.90	-4.08	-.137	.0225	.014	.0346	2.10
	4.22	.226	.0205	-.029	-.0663	1.85		-.53	-.016	.0155	-.004	-.0384	1.88		-2.04	-.067	.0160	.005	.0168	2.04
	6.34	.333	.0375	-.037	-.0854	1.81		.48	.031	.0158	-.011	-.0634	1.81		-1.00	-.033	.0145	0	.0035	2.01
	8.46	.446	.0646	-.043	-.0959	1.78		1.03	.055	.0167	-.014	-.0768	1.77		-.53	-.016	.0143	-.002	-.0044	1.98
	10.57	.539	.0976	-.043	-.1457	1.68		2.04	.102	.0194	-.021	-.0983	1.71		.47	.020	.0144	-.007	-.0238	1.92
	12.68	.623	.1367	-.042	-.1727	1.62		4.09	.195	.0284	-.035	-.1420	1.58		.99	.038	.0149	-.010	-.0317	1.90
	14.88	.733	.1894	-.049	-.1895	1.58		6.15	.289	.0438	-.050	-.1823	1.46		2.03	.074	.0167	-.014	-.0494	1.85
	17.01	.837	.2496	-.055	-.1992	1.56		8.21	.382	.0664	-.064	-.2233	1.35		4.07	.143	.0238	-.024	-.0789	1.76
	18.22	.885	.2841	-.057	-.2108	1.53		9.56	.463	.0879	-.076	-.2627	1.23		6.12	.210	.0355	-.033	-.1112	1.67
															8.16	.278	.0520	-.041	-.1435	1.57
0.90	-4.20	-.168	.0154	-.006	-----	2.00	1.50	-4.10	-.163	.0242	.019	.0427	2.12		10.21	.343	.0727	-.049	-.1782	1.46
	-2.12	-.059	.0082	-.015	-.0175	1.95		-2.05	-.077	.0165	.005	.0017	2.00		12.25	.403	.0971	-.056	-.2016	1.39
	-1.04	-.008	.0068	-.019	-.0307	1.92		-1.00	-.036	.0145	-.001	-.0095	1.93		14.29	.462	.1259	-.062	-.2329	1.30
															16.34	.520	.1595	-.066	-.2616	1.21

NACA

TABLE I.- CONTINUED



(c) Nominal δ, 0°

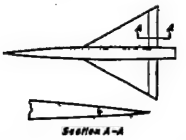
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.17	-0.185	0.0157	0.007	0.036	0	0.90	8.45	0.395	0.0580	-0.022	-0.095	-0.2	1.50	2.02	0.081	0.0169	-0.013	0.048	-0.1
	-2.06	-.093	.0102	.002	.019	0		10.59	.500	.0926	-.027	-.136	-.3		4.08	.166	.0244	-.026	-.089	-.2
	-1.01	-.049	.0080	0	.010	0		12.71	.608	.1375	-.037	-.184	-.4		6.14	.253	.0382	-.039	-.128	-.3
	-.47	-.027	.0071	0	.007	0									8.20	.337	.0582	-.050	-.165	-.5
	.45	.013	.0075	-.002	-.004	0	1.20	-4.10	-.207	.0248	.031	.086	.2		10.26	.420	.0845	-.062	-.200	-.6
	.98	.036	.0077	-.002	-.007	0		-2.04	-.105	.0159	.015	.041	.1		12.32	.497	.1154	-.072	-.239	-.7
	2.04	.078	.0094	-.004	-.016	0		-1.00	-.056	.0135	.007	.019	0		14.38	.574	.1521	-.082	-.276	-.8
	4.15	.170	.0151	-.009	-.034	0		-.47	-.031	.0129	.004	.009	0		16.44	.648	.1944	-.090	-.309	-.9
	6.24	.266	.0284	-.014	-.048	0		.45	.017	.0128	-.003	-.015	0		17.48	.684	.2174	-.093	-.328	-1.0
	8.35	.367	.0490	-.018	-.060	-.1		.98	.042	.0134	-.007	-.026	0							
	10.47	.473	.0789	-.021	-.091	-.1		2.03	.091	.0156	-.014	-.049	-.1	1.70	-4.08	-.161	.0236	.024	.073	.2
	12.58	.571	.1170	-.019	-.107	-.1		4.09	.191	.0248	-.030	-.098	-.2		-2.03	-.083	.0161	.012	.036	.1
	14.70	.681	.1654	-.020	-.124	-.2		6.15	.295	.0399	-.046	-.131	-.3		-.99	-.043	.0141	.006	.016	0
	16.84	.812	.2277	-.025	-.142	-.2		8.22	.405	.0644	-.063	-.176	-.4		-.46	-.024	.0136	.003	.006	0
	17.90	.858	.2581	-.025	-.154	-.2		10.29	.510	.0960	-.078	-.222	-.6		.45	.014	.0139	-.003	-.012	0
								12.36	.619	.1383	-.095	-.276	-.7		.97	.034	.0139	-.006	-.024	0
0.80	-4.19	-.191	.0162	.009	.036	0		14.43	.724	.1811	-.105	-.336	-.9		2.02	.074	.0158	-.011	-.043	-.1
	-2.08	-.098	.0099	.004	.019	0									4.07	.151	.0233	-.023	-.081	-.2
	-1.01	-.050	.0078	.001	.009	0	1.30	-4.11	-.194	.0274	.029	.090	.2		6.13	.229	.0360	-.034	-.120	-.3
	-.47	-.027	.0072	0	.006	0		-2.04	-.100	.0185	.015	.047	.1		8.18	.304	.0540	-.044	-.153	-.4
	.46	.015	.0073	-.002	-.004	0		-1.00	-.053	.0159	.008	.023	0		10.24	.377	.0774	-.053	-.182	-.5
	1.00	.039	.0078	-.003	-.008	0		-.47	-.029	.0152	.004	.010	0		12.29	.446	.1050	-.062	-.214	-.6
	2.07	.086	.0097	-.006	-.019	0		.45	.015	.0150	-.002	-.009	0		14.35	.515	.1377	-.070	-.247	-.7
	4.18	.182	.0166	-.012	-.036	0		.97	.039	.0177	-.006	-.022	0		16.40	.580	.1751	-.075	-.277	-.8
	6.31	.284	.0316	-.019	-.048	-.1		2.03	.096	.0180	-.013	-.046	-.1		17.43	.614	.1963	-.077	-.295	-.9
	8.44	.394	.0566	-.024	-.063	-.1		4.09	.178	.0261	-.027	-.089	-.2							
	10.54	.476	.0860	-.018	-.104	-.2		6.16	.275	.0410	-.041	-.130	-.3	1.90	-4.08	-.144	.0234	.019	.065	.2
	12.67	.588	.1285	-.026	-.139	-.3		8.23	.371	.0635	-.055	-.172	-.5		-2.02	-.073	.0163	.010	.031	.1
	14.80	.701	.1793	-.032	-.175	-.3		10.29	.464	.0926	-.069	-.215	-.6		-.98	-.038	.0147	.005	.013	0
	16.94	.816	.2414	-.042	-.171	-.3		12.36	.555	.1282	-.081	-.259	-.7		-.45	-.022	.0148	.002	.004	0
	18.00	.858	.2750	-.041	-.176	-.3		14.43	.636	.1692	-.092	-.300	-.8		.45	.013	.0146	-.002	-.011	0
								16.49	.720	.2162	-.102	-.334	-.9		.99	.031	.0145	-.005	-.020	0
0.90	-4.22	-.203	.0175	.012	.036	0		17.53	.762	.2427	-.107	-.353	-1.0		2.01	.067	.0160	-.010	-.038	-.1
	-2.10	-.102	.0092	.003	.017	0									4.07	.137	.0229	-.019	-.072	-.2
	-1.01	-.052	.0070	.001	.008	0	1.50	-4.09	-.176	.0248	.026	.080	.2		6.12	.205	.0343	-.029	-.106	-.3
	-.48	-.028	.0065	0	-.004	0		-2.03	-.089	.0166	.013	.037	.1		8.17	.272	.0505	-.037	-.136	-.4
	.46	.017	.0065	-.003	-.005	0		-.99	-.046	.0144	.006	.014	0		10.22	.338	.0712	-.044	-.166	-.5
	1.00	.043	.0071	-.004	-.010	0		-.46	-.024	.0137	.003	.005	0		12.28	.402	.0966	-.051	-.192	-.5
	2.08	.092	.0092	-.008	-.020	0		.45	.016	.0137	-.003	-.014	0		14.33	.463	.1261	-.057	-.219	-.6
	4.19	.192	.0172	-.015	-.037	0		.98	.038	.0143	-.006	-.025	0		16.39	.522	.1602	-.061	-.248	-.7
	6.33	.298	.0329	-.023	-.049	-.1									17.35	.534	.1790	-.062	-.261	-.8

(d) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.20	-0.225	0.0190	0.021	0.056	-2.0	0.90	8.43	0.367	0.0540	-0.007	0.059	-2.2	1.50	4.09	0.158	0.0239	-0.019	-0.038	-2.2
	-2.10	-.132	.0116	.016	.040	-2.0		10.55	.475	.0875	-.014	-.096	-2.3		6.15	.243	.0369	-.031	-.077	-2.3
	-1.05	-.089	.0091	.015	.031	-2.0									8.20	.327	.0563	-.043	-.115	-2.4
	-.53	-.066	.0082	.014	.026	-2.0	1.20	-4.11	-.224	.0270	.042	.164	-1.6		10.25	.407	.0815	-.054	-.153	-2.5
	.45	-.021	.0078	.013	.024	-2.0		-2.05	-.122	.0173	.026	.123	-1.7		12.31	.486	.1119	-.065	-.192	-2.6
	1.01	0	.0078	.012	.019	-2.0		-1.02	-.072	.0143	.018	.102	-1.8		14.36	.561	.1474	-.075	-.229	-2.7
	2.07	.046	.0091	.010	.010	-2.0		-.49	-.047	.0134	.015	.092	-1.8		16.42	.633	.1881	-.083	- - -	- - -
	4.13	.136	.0137	.006	-.007	-2.1		.51	.003	.0133	.008	.067	-1.9		17.45	.667	.2102	-.086	-.277	-2.9
	6.23	.233	.0252	.001	-.022	-2.1		1.04	.028	.0136	.004	.056	-1.9							
	8.33	.334	.0440	-.003	-.038	-2.1		2.05	.075	- - -	-.005	.031	-2.0	1.70	-4.09	-.169	.0249	.028	.120	-1.7
	10.44	.436	.0780	-.005	-.065	-2.2		4.10	.174	.0233	-.018	-.016	-2.1		-2.04	-.092	.0168	.017	.085	-1.8
	12.54	.542	.1096	-.005	-.084	-2.2		6.16	.277	.0381	-.034	-.058	-2.2		-1.01	-.052	.0147	.011	.066	-1.8
	14.69	.650	.1562	-.006	-.098	-2.2		8.23	.386	.0617	-.499	-.102	-2.3		-.48	-.031	.0140	.008	.056	-1.9
	16.78	.775	.2159	-.011	-.118	-2.3		10.29	.487	.0919	-.065	-.147	-2.5		.52	.009	.0138	.002	.033	-1.9
	17.83	.828	.2470	-.010	-.186	-2.3		12.35	.590	.1315	-.080	-.198	-2.6		.99	.028	.0140	0	.024	-2.0
								14.43	.694	- - -	-.088	-.256	-2.8		2.04	.067	.0158	-.006	.004	-2.0
0.80	-4.23	-.236	.0213	.027	-.040	-1.9									4.09	.144	.0229	-.017	-.035	-2.2
	-2.13	-.138	.0118	.020	.047	-1.9	1.30	-4.10	-.204	.0285	.037	.151	-1.6		6.14	.221	.0349	-.028	-.074	-2.3
	-1.07	-.091	.0089	.018	.040	-2.0		-2.05	-.118	.0193	.023	.113	-1.7		8.19	.296	.0524	-.039	-.109	-2.4
	-.54	-.068	.0082	.016	.027	-2.0		-1.01	-.069	.0165	.016	.091	-1.8		10.24	.367	.0752	-.047	-.138	-2.5
	.48	-.022	.0077	.015	.030	-2.0		-.49	-.040	.0158	.012	.079	-1.8		12.29	.437	.1019	-.056	-.173	-2.6
	1.02	.002	.0078	.014	.026	-2.0		.52	.007	.0154	.006	.053	-1.9		14.34	.509	.1336	-.064	-.204	-2.7
	2.09	.050	.0092	.011	.015	-2.0		1.00	.029	.0159	.002	.042	-1.9		16.39	.568	.1699	-.069	-.230	-2.8
	4.17	.145	.0146	.004	-.002	-2.1		2.05	.075	.0178	-.004	.018	-2.0		17.43	.598	.1897	-.071	-.246	-2.8
	6.28	.250	.0280	-.002	-.015	-2.1		4.10	.168	.0256	-.018	-.026	-2.1							
	8.40	.354	.0512	-.005	-.033	-2.1		6.16	.260	.0395	-.032	-.068	-2.3	1.90	-4.08	-.152	.0247	.023	.104	-1.7
	10.51	.446	.0806	-.005	-.076	-2.2		8.22	.357	.0613	-.046	-.113	-2.4		-2.04	-.083	.0171	.014	.073	-1.8
	12.63	.557	.1214	-.013	-.101	-2.3		10.28	.458	.0911	-.061	-.160	-2.5		-1.00	-.047	.0152	.009	.054	-1.9
	14.76	.667	.1702	-.020	-.117	-2.3		12.33	.537	.1231	-.072	-.199	-2.6		-.48	-.029	.0145	.007	.046	-1.9
	16.88	.774	.2281	-.026	-.129	-2.3		14.39	.622	.1633	-.083	-.240	-2.8		.51	.007	.0143	.002	.029	-2.0
	17.94	.817	.2573	-.027	-.140	-2.4		16.45	.698	.2080	-.092	-.273	-2.9		.98	.024	.0146	-.001	.018	-2.0
								17.48	.739	.2334	-.097	-.292	-2.9		2.03	.060	.0159	-.006	.002	-2.0
0.90	-4.25	-.255	.0224	.034	.076	-1.9									4.08	.129	.0223	-.015	-.031	-2.1
	-2.14	-.146	.0116	.024	.057	-1.9	1.50	-4.09	-.185	.0263	.032	.131	-1.7		6.12	.196	.0331	-.024	-.064	-2.2
	-1.08	-.099	.0084	.020	.051	-1.9		-2.04	-.100	.0177	.019	.092	-1.8		8.17	.264	.0488	-.032	-.097	-2.3
	-.54	-.071	.0075	.020	.046	-1.9		-1.01	-.056	.0149	.013	.070	-1.8		10.22	.330	.0692	-.040	-.127	-2.4
	.48	-.023	.0067	.017	.039	-2.0		-.48	-.034	.0141	.010	.061	-1.9		12.26	.392	.0931	-.046	-.153	-2.5
	1.02	.002	- - -	.016	.034	-2.0		.52	.010	.0137	.003	.037	-1.9		14.31	.449	.1208	-.052	-.178	-2.6
	2.11	.056	.0083	.012	.022	-2.0		.99	.031	.0143	0	.026	-2.0		16.36	- - -	- - -	- - -	- - -	-2.7
	4.19	.158	.0151	.003	.005	-2.0		2.04	.073	.0163	-.006	.005	-2.0		17.39	.540	.1732	-.057	-.217	-2.7
	6.30	.262	.0297	-.003	-.016	-2.1														

NACA

TABLE I.- CONTINUED



(e) Nominal δ, -4°

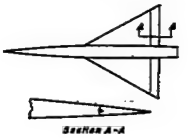
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.22	-0.256	0.0225	0.037	0.087	-3.8	0.90	6.88	0.222	0.0261	0.017	0.016	-3.9	1.50	4.10	0.146	0.0234	-0.012	0.006	-3.9
	-2.13	-.166	.0135	.032	.070	-3.8		8.40	.328	.0494	.011	-.005	-4.0		6.15	.231	.0358	-.024	-.034	-4.1
	-1.09	-.122	.0107	.030	.063	-3.8		10.59	.435	.0818	.004	-.013	-4.0		8.21	.314	.0546	-.035	-.071	-4.2
	-.56	-.101	.0093	.030	.062	-3.8									10.26	.393	.0787	-.047	-.111	-4.3
	.50	-.059	.0082	.029	.054	-3.9	1.20	-4.10	-.240	.0895	.033	.233	-3.3		12.32	.472	.1084	-.057	-.150	-4.4
	.98	-.037	.0081	.028	.051	-3.9		-2.04	-.137	.0190	.038	.195	-3.4		14.37	.546	.1430	-.066	-.187	-4.5
	2.04	.008	.0085	.026	.041	-3.9		-1.01	-.068	.0157	.030	.179	-3.4		16.43	.618	.1831	-.074	---	-4.6
	4.16	.099	.0121	.022	.023	-3.9		-.49	-.063	.0147	.027	.166	-3.5		17.46	.655	.2059	-.077	-.227	-4.7
	6.21	.193	.0211	.017	.007	-3.9		.51	-.013	.0140	.019	.141	-3.5							
	8.31	.295	.0396	.018	-.007	-4.0		1.04	.011	.0143	.015	.126	-3.6	1.70	-4.09	-.176	.0266	.034	.151	-3.5
	10.40	.396	.0656	.009	-.089	-4.0		2.10	.061	.0159	.008	.098	-3.7		-2.04	-.098	.0180	.023	.127	-3.6
	12.53	.503	.1017	.009	-.046	-4.0		4.11	.157	.0228	-.007	.051	-3.8		-1.01	-.060	.0152	.017	.098	-3.6
	14.64	.606	.1458	.007	-.062	-4.1		6.17	.259	.0366	-.023	.009	-3.9		-.48	-.039	.0148	.014	.088	-3.7
	16.77	.725	.2015	.004	-.083	-4.1		8.23	.367	.0592	-.039	-.037	-4.1		.51	-.001	.0143	.008	.066	-3.7
	17.83	.779	.2320	.004	-.096	-4.1		10.29	.468	.0886	-.054	-.084	-4.2		1.04	.020	.0146	.005	.056	-3.8
								12.36	.571	.1270	-.069	-.135	-4.3		2.04	.058	.0159	-.001	.036	-3.8
0.80	-4.25	-.271	.0245	.043	.095	-3.7									4.09	.134	.0223	-.012	---	-4.0
	-2.15	-.175	.0143	.037	.078	-3.8	1.30	-4.10	-.216	.0310	.046	.205	-3.3		6.14	.210	.0338	-.022	-.040	-4.1
	-1.10	-.129	.0110	.035	.072	-3.8		-2.04	-.121	.0210	.031	.167	-3.5		8.19	.285	.0506	-.032	-.077	-4.2
	-.57	-.106	.0097	.034	.070	-3.8		-1.01	-.076	.0180	.029	.148	-3.5		10.24	.354	.0722	-.041	-.108	-4.3
	.49	-.068	.0083	.033	.066	-3.8		-.49	-.052	.0170	.021	.134	-3.6		12.29	.425	.0985	-.049	-.143	-4.4
	.98	-.039	.0082	.032	.061	-3.8		.52	-.005	.0164	.015	.110	-3.6		14.34	.491	.1293	-.057	-.175	-4.5
	2.05	.010	.0087	.029	.051	-3.8		1.04	.017	.0167	.011	.097	-3.7		16.40	.555	.1698	-.062	-.200	-4.6
	4.19	.108	.0130	.022	.033	-3.9		2.08	.062	.0183	-.005	.074	-3.7		17.42	.588	.1893	-.065	-.217	-4.6
	6.25	.208	.0236	.016	.017	-3.9		4.11	.154	.0252	-.010	.028	-3.9							
	8.37	.313	.0456	.012	-.002	-4.0		6.16	.248	.0385	-.023	-.013	-4.0	1.90	-4.08	-.158	.0261	.028	.130	-3.6
	10.49	.411	.0741	.010	-.040	-4.0		8.22	.343	.0594	-.037	-.059	-4.1		-2.04	-.088	.0183	.018	.100	-3.6
	12.61	.521	.1128	.001	-.061	-4.1		10.28	.434	.0869	-.050	-.104	-4.3		-1.00	-.053	.0160	.014	.082	-3.7
	14.74	.629	.1596	-.004	-.088	-4.0		12.34	.522	.1195	-.062	-.144	-4.4		-.48	-.034	.0153	.011	.074	-3.7
	16.86	.734	.2152	-.010	-.118	-4.1		14.40	.607	.1589	-.073	-.193	-4.0		.51	-.001	.0148	.006	.056	-3.8
	17.91	.778	.2435	-.009	-.127	-4.1		16.46	.686	.2038	-.083	-.223	-4.1		1.03	.018	.0150	.004	.046	-3.8
								17.48	.725	.2283	-.087	.240	-4.2		2.02	.052	.0160	-.001	.029	-3.9
0.90	-4.28	-.299	.0280	.056	.117	-3.7									4.08	.120	.0217	-.010	-.006	-4.0
	-2.16	-.188	.0150	.045	.099	-3.7	1.50	-4.10	-.194	.0281	.039	.175	-3.4		6.12	.188	.0320	-.019	-.039	-4.1
	-1.10	-.139	.0113	.042	.101	-3.7		-2.04	-.108	.0189	.026	.137	-3.5		8.17	.259	.0471	-.027	-.071	-4.2
	-.57	-.114	.0099	.041	.099	-3.7		-1.01	-.066	.0160	.020	.116	-3.6		10.22	.330	.0669	-.034	-.103	-4.3
	.49	-.068	.0080	.039	.088	-3.7		-.49	-.044	.0151	.016	.106	-3.6		12.26	.385	.0901	-.041	-.130	-4.3
	.98	-.043	.0080	.037	.085	-3.7		.52	0	.0146	.010	.083	-3.7		14.31	.439	.1176	-.047	-.156	-4.4
	2.06	.011	.0084	.033	.065	-3.8		1.04	.020	.0150	.007	.072	-3.7		16.36	.499	.1502	-.050	-.182	-4.5
	4.21	.118	.0136	.024	.041	-3.9		2.04	.062	.0166	.001	.049	-3.8		17.39	.529	.1688	-.051	-.195	-4.5

(f) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.27	-0.333	0.0313	0.065	0.141	-7.8	0.90	6.30	0.158	0.0252	0.048	0.115	-7.8	1.50	2.09	0.043	0.0189	0.013	0.141	-7.6
	-2.18	-.235	.0195	.059	.117	-7.8		8.42	.263	.0442	.042	.101	-7.8		4.12	.186	.0245	.001	.097	-7.8
	-1.13	-.193	.0153	.058	.115	-7.8		10.51	.375	.0751	.035	.120	-7.8		6.16	.213	.0360	-.012	.050	-7.9
	-.61	-.171	.0136	.058	.112	-7.8		12.64	.490	.1147	.024	.098	-7.8		8.21	.297	.0536	-.023	.010	-8.0
	.43	-.133	.0110	.058	.107	-7.9									10.27	.380	.0776	-.035	-.029	-8.1
	.96	-.109	.0103	.057	.103	-7.9	1.20	-4.09	-.284	.0372	.080	.338	-7.1		12.33	.459	.1063	-.046	-.070	-8.3
	1.97	-.064	.0095	.055	.093	-7.9		-2.04	-.180	.0250	.062	.315	-7.2		14.38	.534	.1402	-.055	-.109	-8.4
	4.09	.028	.0104	.050	.074	-7.9		-1.01	-.132	.0211	.055	.309	-7.2		16.44	.607	.1798	-.063	-.143	-8.5
	6.22	.124	.0160	.046	.059	-7.9		-.49	-.106	.0197	.051	.302	-7.2		17.47	.642	.2014	-.066	-.161	-8.5
	8.32	.226	.0326	.041	.042	-8.0		.49	-.056	.0182	.043	.282	-7.2							
	10.43	.330	.0578	.038	.020	-8.0		1.02	-.030	.0181	.039	.267	-7.3	1.70	-4.09	-.194	.0314	.044	.227	-7.4
	12.49	.436	.0905	.036	.002	-8.0		2.08	.024	.0186	.030	.232	-7.4		-2.04	-.117	.0219	.032	.193	-7.5
	14.61	.544	.1325	.035	---	---		4.16	.125	.0243	.014	.177	-7.5		-1.01	-.078	.0188	.027	.174	-7.5
	16.73	.651	.1821	.036	-.023	-8.1		6.17	.228	.0367	-.003	.132	-7.7		-.49	-.057	.0178	.024	.163	-7.6
	17.79	.716	.2140	.032	-.037	-8.1		8.24	.334	.0577	-.019	.087	-7.8		.51	-.018	.0168	.018	.143	-7.6
								10.30	.440	.0862	-.034	.035	-7.9		1.03	.003	.0168	.015	.133	-7.6
0.80	-4.30	-.346	.0356	.076	.166	-7.7		12.37	.546	.1223	-.048	-.015	-8.1		2.08	.042	.0178	.009	.111	-7.7
	-2.19	-.242	.0216	.067	.139	-7.7									4.09	.118	.0230	-.002	.070	-7.8
	-1.14	-.199	.0175	.066	.139	-7.7	1.30	-4.09	-.247	.0374	.064	.319	-7.1		6.14	.195	.0336	-.013	.028	-8.0
	-.62	-.178	.0158	.066	.141	-7.7		-2.04	-.152	.0260	.049	.268	-7.2		8.19	.271	.0497	-.023	-.006	-8.1
	.43	-.139	.0131	.065	.140	-7.7		-1.01	-.106	.0224	.042	.272	-7.3		10.24	.343	.0713	-.032	-.041	-8.2
	.96	-.115	.0121	.064	.135	-7.7		-.50	-.083	.0211	.038	.257	-7.3		12.29	.414	.0967	-.041	-.078	-8.3
	1.97	-.064	.0111	.060	.115	-7.8		.50	-.036	.0197	.032	.231	-7.4		14.34	.482	.1273	-.049	-.111	-8.4
	4.12	.035	.0119	.053	.091	-7.8		1.03	-.011	.0198	.028	.219	-7.4		16.40	.546	.1634	-.054	-.138	-8.5
	6.26	.139	.0202	.047	.072	-7.9		2.09	.037	.0208	.021	.191	-7.5		17.42	.578	.1818	-.056	-.154	-8.5
	8.39	.244	.0380	.044	.050	-8.0		4.11	.129	.0263	.007	.138	-7.6							
	10.50	.351	.0692	.038	.019	-7.9		6.17	.222	.0384	-.007	.093	-7.8	1.90	-4.08	-.173	.0299	.036	.196	-7.4
	12.58	.464	.1028	.031	.001	-8.0		8.23	.319	.0589	-.021	.044	-7.9		-2.03	-.102	.0212	.027	.164	-7.5
	14.71	.572	.1486	.026	-.004	-8.1		10.29	.413	.0844	-.034	-.005	-8.1		-1.01	-.068	.0186	.022	.144	-7.6
	16.83	.670	.1995	.023	-.021	-8.1		12.34	.501	.1165	-.047	-.048	-8.2		-.49	-.050	.0178	.020	.137	-7.6
	17.89	.716	.2274	.022	-.036	-8.1		14.40	.587	.1550	-.058	-.093	-8.3		.51	-.014	.0169	.015	.120	-7.7
								16.46	.667	.1988	-.067	-.139	-8.4		1.03	.004	.0168	.012	.110	-7.7
0.90	-4.31	-.355	.0376	.083	.213	-7.5		17.49	.707	.2232	-.071	-.148	-8.5		2.07	.040	.0176	.008	.091	-7.8
	-2.19	-.245	.0229	.071	.187	-7.6									4.08	.108	.0226	-.002	.056	-7.9
	-1.14	-.197	.0182	.069	.181	-7.6	1.50	-4.09	-.216	.0337	.052	.266	-7.2		6.13	.177	.0322	-.011	.019	-8.0
	-.61	-.175	.0168	.069	.200	-7.6		-2.04	-.129	.0232	.038	.230	-7.3		8.18	.244	.0466	-.020	.011	-8.1
	.44	-.132	.0138	.067	.189	-7.6		-1.01	-.087	.0200	.032	.211	-7.4		10.22	.309	.0655	-.027	-.045	-8.2
	.92	-.108	.0128	.066	.184	-7.6		-.50	-.066	.0188	.029	.199	-7.4		12.27	.373	.0886	-.033	-.075	-8.3
	1.99	-.057	.0120	.062	.165	-7.7		.51	-.022	.0177	.023	.176	-7.5		14.32	.433	.1158	-.039	-.102	-8.4
	4.16	.051	.0137	.054	.132	-7.7		1.03	-.001	.0178	.020	.166	-7.5		16.37	.492	.1478	-.042	-.127	-8.4
															17.40	.521	.1657	-.043	-.138	-8.5

NACA

TABLE I.- CONTINUED



(g) Nominal δ, -12°

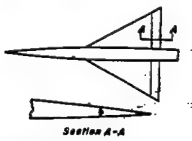
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.30	-0.392	0.0419	0.094	0.212	-11.7	0.90	6.26	0.119	0.0271	0.067	0.212	-11.4	1.50	2.08	0.022	0.0229	0.027	0.234	-11.3
	-2.20	-.289	.0268	.085	.181	-11.7		8.40	.234	.0473	.059	.209	-11.5		4.16	.110	.0277	.013	.182	-11.5
	-1.16	-.248	.0219	.084	.161	-11.7		10.52	.343	.0763	.052	.218	-11.4		6.17	.194	.0376	.001	.135	-11.6
	-.64	-.217	.0200	.085	.150	-11.7		12.60	.457	.1141	.040	.204	-11.5		8.22	.279	.0542	-.012	.091	-11.8
	.30	-.194	.0174	.086	.178	-11.7									10.27	.363	.0769	-.024	.047	-11.9
	.82	-.172	.0160	.085	.174	-11.7	1.20	-3.15	-.282	.0407	.097	.411	-10.9		12.33	.443	.1048	-.035	.002	-12.0
	1.86	-.185	.0140	.083	.163	-11.8		-2.43	-.225	.0354	.088	.403	-10.9		14.38	.518	.1378	-.045	-.039	-12.2
	3.98	-.031	.0124	.078	.140	-11.8		-.98	-.177	.0290	.080	.401	-10.9		16.44	.590	.1761	-.053	-.076	-12.3
	6.15	.056	.0140	.073	.122	-11.8		-.52	-.156	.0272	.076	.395	-10.9	1.70	-4.03	-.210	.0380	.078	.297	-11.1
	8.27	.159	.0299	.068	.102	-11.9		.51	-.103	.0246	.068	.380	-11.0		-2.02	-.133	.0273	.048	.267	-11.2
	10.37	.267	.0484	.064	.081	-11.9		1.03	-.076	.0239	.064	.369	-11.0		-1.01	-.095	.0243	.038	.248	-11.3
	12.46	.374	.0817	.061	.064	-11.9		2.09	-.021	.0231	.054	.340	-11.1		-.49	-.073	.0226	.035	.236	-11.3
	14.59	.482	.1210	.061	.045	-12.0		4.17	.087	.0269	.035	.284	-11.2		.50	-.035	.0211	.029	.219	-11.4
	16.71	.591	.1692	.062	.024	-12.0		6.23	.198	.0383	.019	.236	-11.4		1.03	-.015	.0208	.026	.209	-11.4
	17.72	.634	.1923	.060	.013	-12.0		8.24	.299	.0574	.001	.191	-11.5		2.08	.027	.0214	.021	.188	-11.5
								10.30	.408	.0843	-.016	.144	-11.6		4.16	.105	.0261	.009	.145	-11.6
0.80	-4.32	-.380	.0440	.094	.251	-11.6		12.36	.502	.1169	-.036	.090	-11.8		6.19	.182	.0354	-.002	.101	-11.7
	-2.21	-.282	.0296	.088	.226	-11.6		14.43	.606	.1584	-.037	.031	-12.0		8.20	.257	.0501	-.013	.059	-11.9
	-1.16	-.239	.0249	.087	.209	-11.6									10.25	.332	.0706	-.023	.019	-12.0
	-.64	-.218	.0232	.086	.231	-11.6	1.30	-4.08	-.276	.0466	.084	.401	-10.9		12.30	.402	.0953	-.032	-.020	-12.1
	.41	-.179	.0199	.086	.233	-11.5		-2.03	-.182	.0339	.068	.384	-10.9		14.35	.468	.1288	-.040	-.054	-12.2
	.93	-.156	.0186	.085	.228	-11.6		-1.00	-.138	.0297	.062	.377	-10.9		16.41	.535	.1596	-.045	-.081	-12.3
	1.93	-.109	.0167	.082	.210	-11.6		-.49	-.114	.0279	.058	.367	-11.0		17.44	.567	.1787	-.048	-.099	-12.4
	4.06	-.011	.0152	.075	.177	-11.7		.44	-.067	.0269	.051	.344	-11.0							
	6.22	.088	.0207	.068	.133	-11.7		.97	-.044	.0254	.047	.333	-11.1	1.90	-4.06	-.186	.0362	.046	.259	-11.3
	8.34	.193	.0365	.064	.131	-11.8		2.07	.009	.0251	.039	.296	-11.2		-2.02	-.117	.0264	.036	.229	-11.4
	10.47	.300	.0619	.060	.114	-11.8		4.16	.104	.0294	.024	.237	-11.4		-1.01	-.083	.0233	.031	.213	-11.4
	12.59	.412	.0971	.053	.097	-11.8		6.15	.196	.0398	.009	.191	-11.5		-.49	-.064	.0222	.028	.203	-11.4
	14.70	.510	.1371	.051	.091	-11.9		8.21	.291	.0578	-.005	.144	-11.6		.49	-.029	.0208	.024	.185	-11.5
	16.75	.602	.1846	.038	.116	-11.8		10.26	.387	.0824	-.020	.094	-11.8		.98	-.010	.0206	.021	.176	-11.5
	17.81	.648	.2109	.037	.129	-11.8		12.31	.477	.1132	-.033	.046	-11.9		2.07	.026	.0208	.016	.156	-11.6
								14.37	.564	.1504	-.045	-.004	-12.1		4.09	.096	.0250	.007	.118	-11.7
0.90	-4.32	-.394	.0490	.105	.284	-11.3		16.42	.646	.1931	-.055	-.050	-12.2		6.12	.164	.0332	-.003	.078	-11.8
	-2.21	-.284	.0326	.094	.279	-11.3									8.16	.231	.0466	-.012	.041	-11.9
	-1.15	-.238	.0276	.093	.287	-11.3	1.50	-4.08	-.236	.0417	.066	.350	-11.0		10.21	.297	.0646	-.020	.006	-12.0
	-.63	-.215	.0256	.092	.292	-11.3		-2.03	-.151	.0298	.053	.320	-11.1		12.26	.362	.0871	-.027	-.028	-12.1
	.33	-.171	.0222	.089	.278	-11.3		-1.01	-.109	.0260	.048	.303	-11.1		14.30	.421	.1134	-.032	-.057	-12.2
	.86	-.147	.0210	.088	.274	-11.3		-.49	-.087	.0244	.043	.289	-11.2		16.33	.480	.1448	-.036	-.081	-12.3
	1.91	-.096	.0188	.084	.253	-11.4		.50	-.045	.0226	.036	.268	-11.2		17.37	.511	.1626	-.037	-.092	-12.3
	4.10	.006	.0179	.074	.226	-11.4		1.03	-.023	.0225	.033	.257	-11.3							

(h) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.32	-0.426	0.0507	0.107	0.260	-15.5	0.90	4.02	-0.031	0.0253	0.092	0.306	-15.3	1.50	4.16	0.089	0.0319	0.086	0.261	-15.1
	-2.14	-.338	.0366	.103	.291	-15.5		6.08	.087	.0331	.083	.281	-15.3		6.17	.174	.0409	.013	.212	-15.3
	-1.19	-.299	.0298	.103	.291	-15.5		8.08	.205	.0530	.073	.269	-15.3		8.22	.258	.0563	0	.168	-15.4
	-.67	-.281	.0286	.104	.290	-15.5		10.08	.323	.0822	.066	.290	-15.3		10.28	.342	.0777	-.013	.123	-15.6
	.37	-.250	.0256	.107	.299	-15.5									12.33	.422	.1045	-.024	.078	-15.7
	.77	-.231	.0239	.107	.298	-15.5	1.20	-1.39	-.234	.0401	.105	.483	-14.6		14.39	.497	.1364	-.033	.036	-15.8
	1.82	-.189	.0205	.106	.295	-15.5		-1.08	-.216	.0386	---	.482	-14.6		16.44	.572	.1742	-.042	-.005	-16.0
	3.98	-.088	.0151	.098	.212	-15.5		-.49	-.190	.0360	.099	.479	-14.6		17.47	.607	.1948	-.046	-.020	-16.0
	6.09	.005	.0164	.094	.190	-15.6		.49	-.143	.0328	.090	.463	-14.7							
	8.24	.109	.0262	.090	.173	-15.7		1.00	-.116	.0317	.086	.456	-14.7	1.70	-4.08	-.228	.0455	.066	.368	-14.8
	10.34	.211	.0446	.086	.152	-15.7		2.04	.060	.0299	.074	.425	-14.8		-2.03	-.151	.0342	.055	.340	-14.9
	12.46	.324	.0743	.084	.132	-15.7		4.16	.055	.0322	.054	.368	-14.9		-1.00	-.114	.0304	.049	.323	-15.0
	14.56	.428	.1103	.083	.113	-15.8		6.23	.161	.0422	.037	.318	-15.1		-.49	-.094	.0289	.046	.313	-15.0
	16.67	.535	.1554	.086	.091	-15.8		8.23	.266	.0597	.020	.277	-15.2		.49	-.054	.0270	.040	.295	-15.0
	17.73	.587	.1857	.089	.078	-15.8		10.30	.379	.0865	.002	.232	-15.3		1.00	-.035	.0265	.037	.286	-15.1
								12.36	.478	.1177	-.009	.179	----		2.07	.007	.0265	.031	.269	-15.1
															4.15	.087	.0298	.019	.219	-15.3
0.80	-4.34	-.414	.0936	.110	.301	-15.3									6.15	.164	.0382	.007	.174	-15.9
	-2.23	-.320	.0381	.104	.298	-15.3	1.30	-2.03	-.212	.0429	.086	.456	-14.6		8.21	.241	.0520	-.004	.129	-15.9
	-1.19	-.275	.0325	.102	.299	-15.3		-1.00	-.168	.0382	.079	.450	-14.6		10.25	.315	.0716	-.014	.086	-15.7
	-.66	-.253	.0302	.101	.301	-15.3		-.48	-.145	.0361	.082	.442	-14.7		12.30	.388	.0999	-.023	.043	-15.8
	.39	-.213	.0264	.010	.303	-15.3		.49	-.099	.0337	.068	.428	-14.7		14.35	.454	.1244	-.031	.007	-15.9
	.91	-.192	.0247	.099	.301	-15.3		1.01	-.078	.0329	.065	.421	-14.7		16.41	.520	.1581	-.037	-.015	-16.0
	1.91	-.147	.0223	.097	.290	-15.3		2.06	-.024	.0316	.056	.381	-14.8		17.43	.551	.1765	-.040	-.035	-16.1
	4.03	-.051	.0196	.091	.259	-15.4		4.17	.017	.0344	.039	.321	-15.0							
	6.19	.057	.0238	.084	.238	-15.4		6.23	.173	.0445	.025	.272	-15.1							
	8.33	.163	.0383	.080	.214	-15.5		8.24	.267	.0609	.010	.223	-15.3	1.90	-4.07	-.208	.0425	.050	.320	-15.0
	10.45	.278	.0361	.071	.183	-15.6		10.30	.364	.0848	-.005	.180	-15.4		-2.02	-.133	.0320	.045	.292	-15.1
	12.56	.390	.0972	.067	.161	-15.6		12.35	.457	.1153	-.018	.134	-15.6		-1.01	-.098	.0285	.040	.276	-15.1
	14.70	.497	.1391	.063	.155	-15.6		14.41	.543	.1512	-.031	.089	-15.7		-.49	-.080	.0272	.037	.266	-15.2
	16.82	.588	.1866	.063	.161	-15.6		16.47	.621	.1923	-.040	.034	-15.8		.48	-.045	.0257	.032	.250	-15.2
	17.87	.630	.2131	.064	.185	-15.5		17.50	.660	.2151	-.044	.013	-15.9		.97	-.027	.0250	.030	.240	-15.2
															2.06	.011	.0249	.025	.223	-15.3
0.90	-3.36	-.382	.0532	.118	.369	-15.1	1.50	-4.08	-.258	.0500	.080	.425	-14.6		4.13	.080	.0281	.015	.183	-15.4
	-2.23	-.329	.0453	.115	.376	-15.1		-2.03	-.174	.0377	.066	.402	-14.7		6.12	.151	.0359	.005	.141	-15.5
	-1.17	-.275	.0402	.114	.397	-15.0		-1.00	-.133	.0334	.060	.388	-14.8		8.17	.220	.0487	-.004	.102	-15.6
	-.50	-.261	.0373	.113	.404	-15.0		-.49	-.109	.0316	.056	.376	-14.8		10.21	.285	.0659	-.012	.064	-15.8
	.30	-.218	.0334	.111	.388	-15.1		.49	-.068	.0295	.050	.358	-14.8		12.26	.350	.0877	-.020	.024	-15.9
	.82	-.193	.0314	.109	.378	-15.1		1.02	-.046	.0290	.047	.347	-14.9		14.30	.410	.1096	-.025	-.004	-16.0
	1.87	-.143	.0282	.104	.354	-15.1		2.07	-.001	.0286	.039	.316	-15.0		16.34	.469	.1438	-.029	-.026	-16.0
															17.37	.500	.1611	-.030	-.036	-16.1

NACA

TABLE I.- CONTINUED



(i) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.28	-0.447	0.0610	0.117	0.317	-19.4	0.90	6.23	0.060	0.0350	0.093	0.338	-19.2	1.50	10.28	0.324	0.0797	-0.002	0.188	-19.4
	-2.25	-.360	.0415	.114	.317	-19.4		8.38	.190	.0521	.078	.282	-19.3		12.33	.406	.1056	-.014	.140	-19.5
	-1.22	-.322	.0401	.113	.317	-19.4		10.51	.303	.0827	.073	.299	-19.2		14.39	.481	.1364	-.024	.094	-19.7
	-.68	-.300	.0373	.113	.317	-19.4									16.44	.556	.1736	-.033	.059	-19.8
	.24	-.266	.0338	.114	.321	-19.4	1.20	1.01	-.156	.0413	.108	.531	-18.4		17.47	.591	.1937	-.036	.035	-19.8
	.77	-.244	.0317	.113	.315	-19.4		2.04	-.093	.0381	.093	.501	-18.5							
	1.82	-.205	.0285	.114	.318	-19.4		4.15	.024	.0382	.070	.438	-18.7	1.70	-4.07	-.244	.0544	.077	.427	-18.6
	3.90	-.110	.0236	.106	.286	-19.5		6.24	.133	.0471	.052	.384	-18.9		-2.08	-.168	.0423	.065	.404	-18.7
	6.01	-.015	.0228	.103	.270	-19.5		8.30	.241	.0643	.036	.347	-19.0		-1.00	-.129	.0381	.059	.387	-18.8
	8.22	.087	.0306	.097	.243	-19.5		10.31	.351	.0886	.017	.310	-19.1		-.49	-.109	.0364	.056	.378	-18.8
	10.33	.194	.0489	.093	.228	-19.6		12.38	.454	.1197	.003	.255	-19.2		.49	-.071	.0343	.050	.364	-18.8
	12.43	.298	.0761	.093	.209	-19.6		14.45	.562	.1606	-.009	.206	-19.4		1.01	-.051	.0337	.047	.356	-18.9
	14.53	.398	.1103	.093	.193	-19.6									2.06	-.010	.0330	.041	.333	-18.9
	16.65	.498	.1531	.098	.176	-19.7	1.30	-.99	-.195	.0471	.095	.512	-18.5		4.15	.072	.0341	.028	.277	-19.1
	17.70	.543	.1967	.099	.164	-19.7		-.47	-.170	.0447	.091	.504	-18.5		6.20	.150	.0417	.016	.221	-19.3
								.45	-.124	.0419	.084	.492	-18.5		8.20	.225	.0545	.005	.184	-19.4
0.80	-4.36	-.438	.0634	.120	.351	-19.2		.96	-.103	.0408	.081	.486	-18.5		10.25	.301	.0733	-.005	.144	-19.5
	-2.25	-.342	.0466	.114	.345	-19.2		2.00	-.049	.0382	.070	.438	-18.7		12.30	.374	.0967	-.015	.099	-19.6
	-1.80	-.300	.0408	.113	.345	-19.2		4.16	.052	.0393	.052	.382	-18.8		14.35	.440	.1248	-.023	.058	-19.8
	-.67	-.276	.0379	.111	.344	-19.2		6.22	.150	.0482	.038	.331	-19.0		16.41	.507	.1576	-.029	.029	-19.9
	.37	-.238	.0337	.111	.345	-19.2		8.23	.245	.0641	.024	.288	-19.1		17.43	.540	.1759	-.031	.009	-19.9
	.90	-.215	.0318	.110	.341	-19.2		10.28	.343	.0868	.008	.246	-19.2							
	1.90	-.170	.0287	.107	.330	-19.2		12.33	.433	.1157	-.006	.204	-19.4	1.90	-4.06	-.214	.0496	.063	.382	-18.8
	4.01	-.076	.0247	.107	.306	-19.3		14.39	.516	.1497	-.016	.159	-19.5		-2.02	-.144	.0385	.054	.353	-18.9
	6.17	.031	.0273	.093	.280	-19.5		16.44	.606	.1921	-.030	.104	-19.7		-1.00	-.110	.0347	.048	.335	-19.0
	8.32	.143	.0410	.087	.260	-19.4		17.47	.644	.2146	-.035	.083	-19.7		-.49	-.093	.0332	.046	.327	-19.0
	10.44	.260	.0643	.078	.223	-19.5									.44	-.058	.0312	.041	.310	-19.0
	12.58	.378	.0983	.068	.202	-19.5	1.50	-2.02	-.194	.0458	.079	.458	-18.6		.96	-.041	.0304	.038	.301	-19.1
	14.70	.482	.1382	.067	.190	-19.3		-1.00	-.152	.0411	.072	.446	-18.6		2.01	-.004	.0299	.033	.283	-19.1
	16.81	.575	.1847	.066	.177	-19.6		-.49	-.131	.0392	.069	.436	-18.6		4.14	.069	.0320	.023	.242	-19.2
	17.87	.620	.2114	.066	.170	-19.6		.49	-.090	.0367	.062	.422	-18.7		6.13	.139	.0387	.013	.198	-19.4
								1.00	-.069	.0360	.059	.418	-18.7		8.17	.207	.0506	.003	.149	-19.5
0.90	.38	-.245	.0421	.186	.455	-18.9		2.06	-.021	.0346	.051	.380	-18.8		10.21	.273	.0671	-.005	.110	-19.6
	.90	-.224	.0393	.123	.449	-18.9		4.17	.069	.0362	.036	.319	-19.0		12.28	.339	.0886	-.013	.069	-19.7
	1.91	-.172	.0355	.119	.426	-18.9		6.22	.157	.0449	.023	.271	-19.1		14.29	.400	.1132	-.018	.038	-19.8
	4.04	-.064	.0309	.108	.383	-19.0		8.22	.239	.0592	.011	.232	-19.2		16.35	.460	.1435	-.022	.012	-19.9
															17.37	.490	.1603	-.024	0	-20.0

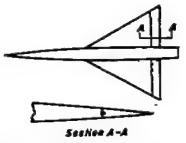
(j) Nominal δ, -24°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.34	-0.464	0.0702	0.124	0.350	-23.4	1.20	2.03	-0.125	0.0468	0.107	0.393	-22.5	1.50	14.39	0.459	0.1364	-0.014	0.135	-23.6
	-2.26	-.376	.0538	.121	.344	-23.4		4.13	-.004	.0448	.082	.482	-22.7		16.44	.534	.1726	-.023	.103	-23.7
	-1.21	-.336	.0481	.121	.349	-23.4		6.24	.108	.0522	.063	.425	-22.8		17.47	.568	.1924	-.027	.086	-23.8
	-.69	-.318	.0456	.122	.352	-23.4		8.30	.214	.0685	.047	.390	-22.9							
	.25	-.278	.0409	.121	.343	-23.4		10.36	.319	.0913	.031	.365	-23.0	1.70	-4.07	-.253	.0608	.083	.450	-22.7
	.76	-.257	.0387	.120	.340	-23.5		12.38	.420	.1208	.017	.313	-23.2		-2.02	-.178	.0481	.071	.428	-22.7
	1.81	-.213	.0351	.118	.335	-23.5		14.45	.524	.1592	.007	.269	-23.3		-1.00	-.141	.0436	.066	.414	-22.8
	3.90	-.128	.0308	.115	.325	-23.5									-.49	-.121	.0418	.063	.404	-22.8
	6.01	-.035	.0291	.110	.307	-23.5	1.30	-.67	-.198	.0547	.101	.541	-22.4		.49	-.084	.0393	.057	.390	-22.8
	8.21	.072	.0366	.105	.287	-23.5		-.65	-.190	.0544	.100	.540	-22.5		1.00	-.064	.0389	.054	.386	-22.8
	10.33	.183	.0544	.101	.269	-23.6		.45	-.148	.0508	.094	.528	-22.5		2.13	.025	.0379	----	.365	-22.9
	12.44	.292	.0819	.098	.247	-23.6		.96	-.125	.0495	.090	.525	-22.5		4.15	.059	.0383	.035	.299	-23.1
	14.56	.395	.1169	.099	.234	-23.6		1.98	-.070	.0454	.078	.473	-22.6		6.20	.136	.0452	.023	.248	-23.3
	16.67	.495	.1591	.102	.219	-23.7		4.14	.033	.0452	.060	.404	-22.9		8.20	.209	.0575	.013	.215	-23.4
	17.72	.549	.1841	.103	.206	-23.7		6.23	.189	.0532	.046	.360	-23.0		10.25	.283	.0735	.003	.186	-23.5
								8.28	.223	.0683	.034	.331	-23.1		12.30	.355	.0977	-.007	.140	-23.6
0.80	-1.21	-.322	.0503	.125	.355	-23.2		10.29	.317	.0892	.019	.291	-23.2		14.35	.422	.1243	-.016	.097	-23.7
	-.69	-.300	.0476	.124	.349	-23.2		12.37	.409	.1174	.005	.248	-23.3		16.41	.486	.1565	-.021	.071	-23.8
	.36	-.261	.0430	.123	.336	-23.2		14.40	.485	.1489	-.003	.205	-23.4		17.43	.520	.1741	-.024	.051	-23.9
	.88	-.239	.0404	.121	.329	-23.2		16.45	.580	.1910	-.019	.155	-23.6							
	1.88	-.192	.0368	.118	.318	-23.2		17.48	.618	.2132	-.024	.135	-23.7	1.90	-4.06	-.227	.0575	.071	.424	-22.8
	3.99	-.099	.0320	.112	.302	-23.3									-2.02	-.157	.0459	.061	.393	-22.9
	6.15	.011	.0335	.103	.285	-23.3	1.50	-4.05	-.243	.0620	.091	.482	-22.6		-1.00	-.123	.0417	.055	.377	-22.9
	8.32	.130	.0460	.094	.269	-23.4		-2.02	-.205	.0521	.086	.476	-22.6		-.48	-.105	.0402	.053	.368	-22.9
	10.45	.253	.0691	.082	.251	-23.5		-1.00	-.166	.0479	.080	.468	-22.6		.43	-.071	.0377	.048	.350	-23.0
	12.58	.371	.1021	.072	.224	-23.5		-.48	-.146	.0460	.077	.460	-22.6		.96	-.052	.0367	.045	.339	-23.0
	14.71	.481	.1437	.069	.214	-23.6		.49	-.105	.0430	.071	.446	-22.7		2.00	-.016	.0358	.040	.319	-23.1
	16.82	.572	.1886	.068	.195	-23.6		1.01	-.084	.0422	.068	.440	-22.7		4.14	.058	.0369	.029	.270	-23.2
	17.89	.625	.2170	.064	.180	-23.6		2.05	-.038	.0398	.058	.397	-22.8		6.18	.130	.0429	.019	.220	-23.4
								4.16	.054	.0404	.044	.338	-23.0		8.17	.197	.0539	.009	.180	-23.5
0.90	2.41	-.117	.0442	.130	.488	-22.9		6.22	.140	.0484	.031	.298	-23.1		10.22	.263	.0703	.001	.150	-23.6
	3.92	-.089	.0391	.119	.444	-23.0		8.23	.220	.0624	.020	.269	-23.2		12.26	.331	.0911	-.007	.110	-23.7
	6.22	.041	.0405	.102	.377	-23.2		10.28	.304	.0817	.007	.227	-23.3		14.30	.390	.1153	-.013	.078	-23.8
	8.42	.181	.0572	.082	.316	-23.3		12.33	.384	.1068	-.004	.188	-23.5		16.36	.450	.1450	-.017	.048	-23.9
															17.38	.484	.1619	-.018	.036	-23.9

NACA

[redacted]

TABLE I.- CONCLUDED

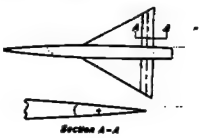


(k) Nominal δ, -28°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.37	-0.480	0.0798	0.131	0.390	-27.3	1.20	6.23	0.087	0.0570	0.072	0.458	-26.7	1.70	-4.05	-0.233	0.0647	0.088	0.468	-26.5
	-2.28	-.398	.0631	.129	.388	-27.3		8.29	.194	.0738	.057	.438	-26.7		-2.02	-.198	.0549	.082	.460	-26.5
	-1.24	-.360	.0567	.129	.389	-27.3		10.36	.300	.0964	.041	.419	-26.8		-1.00	-.150	.0501	.076	.446	-26.6
	-.71	-.340	.0537	.129	.391	-27.3		12.37	.404	.1251	.025	.369	-26.9		-.49	-.141	.0482	.073	.438	-26.6
	.32	-.300	.0480	.128	.383	-27.3		14.44	.508	.1628	.015	.326	-27.0		.49	-.102	.0460	.067	.423	-26.7
	.84	-.281	.0456	.127	.381	-27.3									1.00	-.083	.0452	.065	.418	-26.7
	1.89	-.239	.0416	.126	.375	-27.3	1.30	.80	-.164	.0599	.107	.378	-26.3		2.04	-.042	.0430	.057	.390	-26.8
	3.92	-.152	.0361	.121	.356	-27.3		1.01	-.153	.0593	.105	.375	-26.3		4.14	.043	.0422	.043	.330	-26.9
	6.03	-.063	.0336	.118	.346	-27.3		2.03	-.093	.0531	.090	.317	-26.5		6.20	.124	.0482	.031	.277	-27.1
	8.17	.041	.0395	.112	.331	-27.4		4.14	.014	.0508	.069	.436	-26.7		8.25	.198	.0611	.020	.251	-27.2
	10.31	.149	.0558	.108	.313	-27.4		6.23	.112	.0578	.055	.393	-26.8		10.25	.273	.0785	.010	.226	-27.3
	12.42	.263	.0820	.104	.289	-27.4		8.29	.204	.0726	.043	.374	-26.9		12.31	.349	.1014	0	.188	-27.4
	14.53	.367	.1155	.103	.271	-27.5		10.30	.298	.0929	.029	.340	-27.0		14.35	.418	.1276	-.010	.145	-27.5
	16.64	.467	.1566	.107	.254	-27.5		12.35	.386	.1188	.016	.297	-27.1		16.41	.484	.1602	-.016	.124	-27.6
	17.70	.518	.1804	.108	.239	-27.5		14.41	.470	.1508	.005	.254	-27.2		17.43	.517	.1779	-.020	.099	-27.8
								16.46	.559	.1913	-.009	.204	-27.4							
0.80	1.87	-.217	.0443	.129	.427	-27.0		17.49	.597	.2127	-.013	.190	-27.4	1.90	-4.06	-.239	.0653	.078	.454	-26.6
	3.97	-.128	.0379	.122	.403	-27.0									-2.02	-.170	.0525	.068	.425	-26.7
	6.11	-.025	.0382	.115	.376	-27.1	1.50	-2.36	-.238	.0625	.097	.506	-26.5		-.99	-.136	.0478	.062	.410	-26.7
	8.25	.098	.0479	.103	.330	-27.2		-2.02	-.224	.0607	.095	.505	-26.5		-.49	-.118	.0459	.060	.402	-26.8
	10.43	.223	.0699	.091	.294	-27.3		-1.00	-.187	.0567	.090	.495	-26.5		.44	-.083	.0430	.055	.380	-26.8
	12.56	.341	.1020	.081	.278	-27.3		-.48	-.164	.0541	.087	.487	-26.5		.95	-.065	.0418	.052	.369	-26.9
	14.69	.448	.1405	.079	.263	-27.4		.49	-.124	.0505	.080	.474	-26.5		1.98	-.029	.0402	.047	.346	-26.9
	16.81	.550	.1868	.076	.230	-27.4		1.00	-.103	.0496	.077	.466	-26.6		4.13	.046	.0338	.035	.297	-27.1
	17.87	.600	.2130	.073	.213	-27.7		2.04	-.054	.0460	.067	.424	-26.7		6.18	.117	.0432	.024	.244	-27.2
								4.14	.038	.0450	.051	.358	-26.9		8.17	.185	.0565	.015	.213	-27.3
0.90	3.95	-.119	.0461	.130	.495	-26.8		6.22	.126	.0521	.038	.316	-27.0		10.21	.255	.0731	.007	.193	-27.4
	6.17	.012	.0465	.113	.431	-26.9		8.27	.207	.0663	.027	.298	-27.1		12.26	.317	.0928	-.001	.157	-27.5
	8.35	.153	.0595	.091	.359	-27.1		10.27	.291	.0849	.014	.262	-27.2		14.30	.381	.1166	-.008	.112	-27.6
	10.49	.285	.0860	.077	.321	-27.2		12.32	.372	.1094	.003	.230	-27.3		16.34	.441	.1458	-.013	.090	-27.7
								14.38	.448	.1377	-.008	.181	-27.4		17.37	.472	.1626	-.015	.079	-27.7
1.20	2.52	-.126	.0542	.114	.594	-26.3		16.43	.523	.1739	-.017	.150	-27.5							
	4.12	-.028	.0515	.092	.521	-26.5		17.67	.557	.1961	----	.139	-27.5							

NACA

TABLE II.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 50-PERCENT BALANCE FLAP (TRUE CONTOUR WING PROFILE; ROUND NOSE FLAP). DATA FOR TWO FLAPS. $R = 4.4 \times 10^6$



(a) Nominal δ, 2°

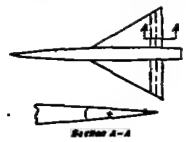
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.18	-0.157	0.0147	-0.005	0.011	2.1	0.90	8.55	0.456	0.0236	-0.046	-0.076	2.0	1.50	10.33	0.430	0.0880	-0.069	-.192	1.9
	-2.10	-.067	.0096	-.009	.001	2.1		10.77	.578	.1089	-.060	-.115	2.0		12.39	.510	.1228	-.080	-.224	1.9
	-1.04	-.022	.0086	-.012	-.001	2.1									14.45	.586	.1579	-.090	-.264	1.8
	-.50	0	.0084	-.012	-.003	2.1	1.20	-4.19	-.188	.0248	.021	.013	2.1		16.28	.661	.2012	-.098	-.281	1.8
	.51	.043	.0085	-.014	-.004	2.1		-2.08	-.087	.0162	.005	-.019	2.0		17.56	.696	.2245	-.102	-.294	1.8
	1.05	.087	.0092	-.015	-.005	2.1		-1.03	-.039	.0142	-.002	-.040	2.0							
	2.12	.112	.0115	-.018	-.009	2.1		-.52	-.014	.0135	-.006	-.053	2.0	1.70	-4.13	-.152	.0236	.018	.030	2.1
	4.21	.204	.0184	-.021	-.019	2.0		.49	.033	.0138	-.014	-.071	2.0		-2.07	-.074	.0163	.006	-.003	2.1
	6.31	.300	.0338	-.025	-.030	2.0		1.02	.060	.0146	-.018	-.081	2.0		-1.02	-.034	.0145	0	-.019	2.0
	8.42	.407	.0954	-.031	-.032	2.0		2.07	.110	.0172	-.026	-.097	2.0		-.53	-.019	.0141	-.002	-.027	2.0
	10.53	.509	.0881	-.039	-.056	2.0		4.13	.210	.0266	-.042	-.125	2.0		.50	.024	.0142	-.008	-.043	2.0
	12.66	.609	.1279	-.046	-.073	2.0		6.21	.315	.0433	-.059	-.161	1.9		1.02	.045	.0148	-.012	-.052	2.0
	14.79	.718	.1778	-.087	-.079	2.0		8.28	.404	.0687	-.076	-.193	1.9		2.07	.085	.0170	-.017	-.070	2.0
	16.93	.848	.2416	-.035	-.082	2.0		10.35	.588	.1012	-.092	-.221	1.9		4.13	.162	.0251	-.029	-.108	2.0
	18.00	.908	.2767	-.034	-.088	2.0		12.44	.650	.1459	-.114	-.252	1.9		6.18	.241	.0384	-.040	-.134	1.9
															8.24	.327	.0569	-.050	-.163	1.9
0.80	-4.22	-.168	.0161	-.003	.007	2.1	1.30	-4.15	-.178	.0270	.022	.004	2.1		10.31	.388	.0808	-.058	-.186	1.9
	-2.13	-.071	.0098	-.009	.000	2.1		-2.08	-.084	.0189	.006	-.009	2.0		12.36	.458	.1095	-.068	-.210	1.9
	-1.05	-.023	.0083	-.012	-.002	2.1		-1.03	-.039	.0168	0	-.030	2.0		14.42	.527	.1431	-.076	-.236	1.9
	-.55	-.001	.0083	-.014	-.002	2.1		-.53	-.016	.0163	-.004	-.041	2.0		16.48	.594	.1818	-.082	-.263	1.8
	.33	.049	.0086	-.016	-.003	2.1		.50	.028	.0163	-.011	-.058	2.0		17.52	.626	.2030	-.084	-.276	1.8
	1.07	.071	.0092	-.016	-.004	2.1		1.03	.094	.0171	-.015	-.072	2.0							
	2.13	.119	.0118	-.019	-.004	2.1		2.07	.101	.0197	-.022	-.090	2.0	1.90	-4.11	-.136	.0229	.015	.043	2.0
	4.26	.216	.0201	-.025	-.018	2.0		4.13	.194	.0286	-.036	-.125	2.0		-2.06	-.066	.0147	.005	.011	2.0
	6.37	.324	.0366	-.032	-.020	2.0		6.21	.290	.0441	-.051	-.158	1.9		-1.02	-.031	.0141	0	-.005	1.9
	8.51	.440	.0649	-.040	-.041	2.0		8.28	.391	.0679	-.068	-.198	1.9		-.53	-.014	.0139	-.003	-.018	1.9
	10.63	.536	.0990	-.038	-.081	2.0		10.35	.484	.0983	-.078	-.225	1.9		.49	.022	.0138	-.007	-.027	1.9
	12.76	.634	.1402	-.034	-.085	2.0		12.42	.571	.1346	-.090	-.261	1.8		1.02	.041	.0143	-.010	-.035	1.9
	14.89	.731	.1931	-.041	-.085	2.0		14.48	.660	.1778	-.103	-.296	1.8		2.02	.077	.0168	-.015	-.051	1.9
	17.03	.848	.2580	-.049	-.099	2.0		16.56	.745	.2271	-.114	-.319	1.8		4.07	.148	.0233	-.025	-.081	1.9
	18.14	.946	.3057	-.063	-.114	2.0									6.12	.214	.0330	-.034	-.110	1.8
							1.50	-4.14	-.164	.0247	.020	-.032	2.1		8.16	.280	.0514	-.048	-.137	1.8
0.90	-4.25	-.177	.0170	-.001	.012	2.1		-2.08	-.076	.0169	.006	-.001	2.1		10.21	.345	.0724	-.059	-.159	1.8
	-2.13	-.074	.0094	-.009	.011	2.1		-1.03	-.036	.0150	0	-.019	2.0		12.27	.412	.0982	-.066	-.188	1.7
	-1.05	-.023	.0079	-.013	.009	2.1		-.53	-.015	.0144	-.003	-.028	2.0		14.32	.472	.1283	-.063	-.212	1.7
	-.52	.002	.0078	-.015	.010	2.1		.50	.026	.0149	-.010	-.044	2.0		16.37	.534	.1634	-.066	-.237	1.7
	.53	.049	.0082	-.018	.008	2.1		1.03	.050	.0152	-.013	-.056	2.0		17.40	.563	.1846	-.068	-.249	1.7
	1.08	.076	.0090	-.020	.007	2.1		2.07	.093	.0177	-.020	-.073	2.0							
	2.15	.126	.0117	-.023	.001	2.1		4.13	.180	.0263	-.033	-.106	2.0							
	4.26	.226	.0211	-.030	-.014	2.0		6.19	.265	.0405	-.046	-.138	1.9							
	6.40	.338	.0384	-.039	-.047	2.0		8.26	.350	.0612	-.057	-.169	1.9							

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.22	-0.194	0.0166	0.011	0.012	0	0.90	6.37	0.291	0.0332	-0.014	-0.043	-0	1.50	4.14	0.169	0.0251	-0.025	-0.060	0
	-2.18	-.105	.0106	.007	.008	0		8.52	.410	.0611	-.023	-.071	0		6.21	.256	.0366	-.037	-.092	0
	-1.05	-.059	.0087	.005	.000	0		10.69	.541	.1010	-.038	-.100	0		8.28	.343	.0552	-.049	-.121	-.1
	-.52	-.038	.0083	.005	-.000	0									10.34	.424	.0856	-.061	-.150	-.1
	.47	.006	.0081	.003	-.004	0	1.20	-4.15	-.207	.0254	.035	.066	0		12.41	.501	.1171	-.071	-.181	-.1
	1.08	.028	.0082	.002	-.004	0		-2.08	-.107	.0163	.018	.053	0		14.48	.579	.1545	-.081	-.211	-.1
	2.08	.072	.0098	0	-.007	0		-1.03	-.058	.0140	.011	.035	0		16.55	.654	.1972	-.089	-.237	-.2
	4.19	.162	.0152	-.004	-.013	0		-.50	-.031	.0132	.007	.024	0		17.59	.689	.2205	-.093	-.251	-.2
	6.29	.256	.0277	-.008	-.023	0		.50	.017	.0129	0	.006	0							
	8.40	.360	.0489	-.014	-.024	0		1.04	.043	.0136	-.004	-.005	0	1.70	-4.13	-.161	.0246	.025	.067	0
	10.51	.459	.0785	-.013	-.049	0		2.08	.093	.0157	-.012	-.025	0		-2.07	-.082	.0165	.013	.036	0
	12.64	.560	.1164	-.011	-.059	0		4.15	.198	.0244	-.027	-.059	0		-1.03	-.044	.0144	.007	.020	0
	14.77	.669	.1638	-.012	-.060	0		6.22	.299	.0402	-.044	-.098	0		-.50	-.023	.0138	.004	.013	0
	16.91	.798	.2235	-.018	-.067	0		8.30	.407	.0648	-.060	-.128	-.1		.49	.017	.0137	-.002	-.001	0
	17.96	.851	.2571	-.017	-.073	0		10.37	.509	.0970	-.075	-.163	-.1		1.02	.037	.0142	-.005	-.009	0
								12.46	.622	.1401	-.092	-.210	-.1		2.07	.077	.0162	-.010	-.024	0
0.80	-4.25	-.209	.0187	.016	.008	0									4.13	.154	.0239	-.022	-.055	0
	-2.13	-.113	.0109	.010	-.001	0	1.30	-4.15	-.196	.0279	.032	.086	-.1		6.19	.233	.0366	-.033	-.086	0
	-1.07	-.065	.0086	.008	-.003	0		-2.08	-.100	.0189	.017	.058	-.1		8.25	.308	.0547	-.043	-.114	-.1
	-.53	-.040	.0083	.006	-.005	0		-1.04	-.053	.0164	.010	.033	-.1		10.32	.381	.0783	-.052	-.136	-.1
	.51	.006	.0079	.004	-.007	0		-.51	-.029	.0157	.006	.023	-.1		12.38	.451	.1065	-.061	-.161	-.1
	1.05	.030	.0082	.003	-.007	0		.50	.017	.0155	-.001	.004	-.1		14.43	.520	.1395	-.069	-.187	-.1
	2.09	.077	.0101	0	-.007	0		1.04	.041	.0161	-.004	-.004	-.1		16.50	.587	.1778	-.074	-.209	-.1
	4.22	.174	.0165	-.006	-.017	0		2.08	.088	.0184	-.011	-.023	0		17.54	.619	.1988	-.076	-.222	-.1
	6.34	.279	.0311	-.018	-.018	0		4.15	.182	.0267	-.025	-.060	0							
	8.49	.395	.0573	-.020	-.032	0		6.21	.278	.0414	-.040	-.093	0	1.90	-4.12	-.147	.0245	.021	.058	0
	10.62	.496	.0904	-.020	-.069	0		8.29	.375	.0540	-.053	-.127	0		-2.07	-.076	.0169	.011	.031	0
	12.74	.583	.1283	-.018	-.073	0		10.36	.467	.0935	-.067	-.162	0		-1.03	-.040	.0149	.006	.018	0
	14.88	.696	.1798	-.025	-.074	0		12.43	.557	.1296	-.079	-.198	0		-.50	-.021	.0144	.003	.011	0
	17.01	.808	.2405	-.031	-.081	0		14.51	.644	.1717	-.091	-.232	0		.50	.014	.0143	-.002	-.002	0
	18.07	.851	.2706	-.030	-.092	0		16.57	.788	.2197	-.101	-.259	-.1		1.02	.032	.0147	-.004	-.006	0
								17.60	.755	.2415	-.107	-.272	-.1		2.06	.068	.0162	-.009	-.022	0
0.90	-4.28	-.220	.0195	.020	.006	0									4.11	.139	.0230	-.019	-.049	0
	-2.13	-.119	.0105	.013	-.006	0	1.50	-4.14	-.178	.0259	.028	.076	0		6.18	.209	.0343	-.028	-.076	0
	-1.08	-.070	.0081	.010	-.007	0		-2.08	-.090	.0173	.015	.042	0		8.22	.273	.0505	-.037	-.100	0
	-.53	-.044	.0074	.008	-.007	0		-1.04	-.048	.0150	.008	.024	0		10.28	.340	.0713	-.044	-.128	-.1
	.52	.007	.0072	.005	-.009	0		-.51	-.026	.0142	.005	.015	0		12.34	.408	.0963	-.051	-.161	-.1
	1.07	.031	.0076	.004	-.009	0		.49	.018	.0140	-.001	.000	0		14.39	.464	.1258	-.057	-.183	-.1
	2.11	.081	.0096	0	-.007	0		1.04	.040	.0146	-.005	-.009	0		16.46	.525	.1605	-.060	-.185	-.1
	4.25	.183	.0173	-.008	-.019	0		2.08	.083	.0169	-.012	-.027	0		17.49	.555	.1797	-.061	-.195	-.1

[redacted]

TABLE II.- CONTINUED



(c) Nominal δ, -2°

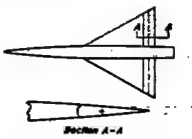
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.25	-0.238	0.0212	0.027	0.010	-1.8	0.90	6.34	0.244	0.0296	0.008	-0.048	-2.0	1.50	2.07	0.068	0.0181	0.005	0.019	-1.8
	-2.15	-.148	.0131	.023	.000	-1.9		8.47	.348	.0531	.004	-.074	-2.0		4.13	.154	.0253	-.018	-.015	-1.9
	-1.11	-.103	.0110	.022	-.000	-1.9		10.61	.452	.0969	-.001	-.095	-2.0		6.20	.241	.0279	-.031	-.048	-1.9
	-.56	-.080	.0101	.021	-.000	-1.9		12.75	.565	.1306	-.010	-.115	-2.0		8.27	.326	.0376	-.042	-.077	-1.9
	.44	-.038	.0092	.019	-.004	-1.9									10.33	.408	.0835	-.054	-.107	-1.9
	.97	-.012	.0091	.019	-.005	-1.9	1.20	-4.14	-.231	.0298	.046	.136	-1.8		12.40	.487	.1145	-.065	-.138	-2.0
	2.06	.030	.0099	.017	-.008	-1.9		-2.09	-.129	.0197	.030	.121	-1.9		14.47	.569	.1511	-.075	-.169	-2.0
	4.18	.119	.0137	.012	-.013	-1.9		-1.04	-.079	.0179	.022	.106	-1.9		16.53	.640	.1930	-.083	-.193	-2.0
	6.26	.216	.0236	.007	-.018	-1.9		-.52	-.053	.0171	.018	.096	-1.9		17.49	.677	.2155	-.086	-.208	-2.0
	8.36	.317	.0442	.002	-.020	-1.9		.49	-.003	.0164	.010	.077	-1.9							
	10.48	.420	.0734	.002	-.040	-1.9		1.04	.021	.0167	.006	.065	-1.9	1.70	-4.13	-.171	.0274	.030	.107	-1.8
	12.59	.521	.1096	.003	-.050	-1.9		2.07	.069	.0184	-.002	.041	-1.9		-2.07	-.093	.0187	.019	.078	-1.8
	14.71	.630	.1548	.002	-.050	-1.9		4.14	.169	.0258	-.018	.004	-2.0		-1.03	-.053	.0163	.013	.061	-1.8
	16.86	.758	.2145	-.003	-.057	-1.9		6.21	.276	.0410	-.034	-.026	-2.0		-.51	-.031	.0162	.009	.053	-1.8
	17.92	.813	.2462	-.003	-.063	-1.9		8.29	.382	.0638	-.050	-.058	-2.0		.51	.007	.0159	.003	.038	-1.8
								10.36	.488	.0949	-.065	-.098	-2.0		1.02	.026	.0161	0	.030	-1.8
0.80	-4.29	-.250	.0235	.033	.007	-2.0		12.44	.594	.1358	-.081	-.145	-2.1		2.07	.065	.0176	-.005	.014	-1.8
	-2.17	-.155	.0143	.028	-.007	-2.0		14.53	.690	.1816	-.083	-.192	-2.1		4.13	.154	.0244	-.017	-.016	-1.9
	-1.12	-.108	.0113	.026	-.010	-2.0									6.19	.222	.0363	-.028	-.048	-1.9
	-.59	-.084	.0105	.025	-.011	-2.0	1.30	-4.15	-.213	.0328	.041	.141	-1.7		8.25	.296	.0536	-.038	-.076	-1.9
	.40	-.039	.0096	.023	-.013	-2.0		-2.08	-.119	.0227	.026	.111	-1.8		10.31	.370	.0767	-.046	-.099	-1.9
	.94	-.015	.0093	.021	-.013	-2.0		-1.05	-.070	.0196	.018	.094	-1.8		12.37	.442	.1039	-.056	-.125	-2.0
	2.01	.033	.0099	.018	-.013	-2.0		-.52	-.045	.0189	.014	.083	-1.8		14.43	.511	.1372	-.064	-.151	-2.0
	4.22	.129	.0147	.012	-.016	-2.0		.51	0	.0182	.008	.062	-1.8		16.49	.576	.1744	-.069	-.172	-2.0
	6.31	.232	.0270	.006	-.019	-2.0		1.04	.024	.0187	.004	.053	-1.8		17.53	.610	.1957	-.071	-.185	-2.0
	8.44	.342	.0508	0	-.030	-2.0		2.07	.070	.0206	-.003	.031	-1.8							
	10.57	.440	.0819	-.001	-.062	-2.0		4.14	.163	.0277	-.018	-.006	-1.9	1.90	-4.12	-.154	.0269	.025	.095	-1.9
	12.69	.542	.1204	-.002	-.063	-2.0		6.21	.259	.0414	-.032	-.037	-1.9		-2.07	-.089	.0186	.015	.068	-1.9
	14.75	.631	.1673	-.008	-.063	-2.0		8.27	.355	.0630	-.045	-.074	-1.9		-1.03	-.048	.0163	.011	.054	-1.9
	16.97	.756	.2248	-.012	-.069	-2.0		10.35	.448	.0917	-.059	-.111	-1.9		-.50	-.029	.0157	.008	.047	-1.9
	18.03	.801	.2541	-.013	-.080	-2.0		12.42	.538	.1267	-.072	-.145	-2.0		.51	.006	.0156	.003	.033	-1.9
								14.49	.626	.1682	-.083	-.180	-2.0		1.01	.023	.0160	0	.026	-1.9
0.90	-4.29	-.263	.0251	.040	.006	-2.0		16.56	.711	.2156	-.093	-.807	-2.0		2.06	.059	.0174	-.005	.012	-1.9
	-2.18	-.166	.0151	.035	-.001	-2.0		17.59	.751	.2412	-.098	-.218	-2.0		4.11	.130	.0236	-.015	-.015	-2.0
	-1.11	-.115	.0117	.033	-.005	-2.0									6.18	.200	.0347	-.024	-.042	-2.0
	-.59	-.093	.0107	.032	-.010	-2.0	1.50	-4.14	-.191	.0295	.035	.124	-1.8		8.23	.267	.0504	-.032	-.066	-2.0
	.45	-.046	.0096	.029	-.015	-2.0		-2.08	-.103	.0201	.021	.091	-1.8		10.29	.333	.0709	-.039	-.089	-2.0
	1.00	-.020	.0092	.027	-.018	-2.0		-1.05	-.060	.0179	.015	.074	-1.8		12.33	.395	.0952	-.046	-.109	-2.0
	2.07	.033	.0096	.023	-.024	-2.0		-.50	-.037	.0169	.011	.064	-1.8		14.39	.456	.1241	-.052	-.130	-2.1
	4.21	.139	.0156	.014	-.029	-2.0		.52	-.004	.0161	.005	.046	-1.8		16.46	.518	.1584	-.056	-.151	-2.1
								1.02	.027	.0163	.001	.037	-1.8		17.49	.549	.1776	-.057	-.161	-2.1

(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.27	-0.269	0.0243	0.043	0.004	-3.9	0.90	6.35	0.207	0.0296	0.029	-0.033	-3.9	1.50	2.07	0.061	0.0185	0.002	0.026	-3.8
	-2.12	-.181	.0154	.039	-.006	-3.9		8.46	.304	.0513	.027	-.033	-3.9		4.14	.147	.0254	-.012	.019	-3.8
	-1.13	-.138	.0124	.038	-.012	-3.9		10.58	.404	.0823	.023	-.026	-3.9		6.20	.233	.0378	-.024	-.011	-3.9
	-.60	-.115	.0111	.037	-.013	-3.9		12.73	.502	.1250	.014	-.015	-3.9		8.26	.317	.0566	-.036	-.042	-3.9
	.39	-.073	.0096	.036	-.014	-3.9									10.33	.399	.0817	-.047	-.073	-3.9
	.93	-.051	.0092	.035	-.015	-3.9	1.20	-4.15	-.247	.0334	.058	.189	-3.7		12.40	.479	.1122	-.058	-.104	-3.9
	2.00	-.003	.0094	.033	-.017	-3.9		-2.08	-.144	.0222	.040	.168	-3.7		14.46	.555	.1480	-.068	-.135	-4.0
	4.16	.089	.0124	.029	-.022	-3.9		-1.04	-.094	.0191	.033	.158	-3.7		16.52	.630	.1895	-.076	-.160	-4.0
	6.27	.186	.0206	.024	-.028	-3.9		-.52	-.069	.0181	.029	.151	-3.7		17.56	.666	.2122	-.079	-.175	-4.0
	8.35	.287	.0406	.019	-.032	-3.9		.48	-.019	.0171	.021	.134	-3.7							
	10.46	.390	.0680	.018	-.050	-3.9		1.04	.007	.0172	.018	.121	-3.8	1.70	-4.13	-.177	.0298	.035	.136	-3.7
	12.58	.499	.1038	.018	-.058	-3.9		2.10	.058	.0189	.010	.093	-3.8		-2.07	-.099	.0203	.024	.108	-3.8
	14.71	.608	.1496	.016	-.060	-3.9		4.15	.158	.0256	-.007	.053	-3.8		-1.04	-.059	.0176	.018	.091	-3.8
	16.65	.731	.2068	.013	-.069	-3.9		6.21	.260	.0393	-.023	.020	-3.8		-.51	-.039	.0168	.015	.083	-3.8
	17.92	.787	.2380	.012	-.072	-3.9		8.29	.369	.0682	-.039	-.015	-3.9		.52	.001	.0163	.009	.068	-3.8
								10.37	.476	.0939	-.054	-.052	-3.9		1.05	.022	.0166	.006	.060	-3.8
0.80	-4.32	-.284	.0267	.051	-.017	-3.9		12.46	.589	.1340	-.069	-.095	-3.9		2.07	.050	.0179	0	.041	-3.8
	-2.19	-.191	.0178	.046	-.033	-3.9									4.13	.137	.0243	-.012	.008	-3.8
	-1.14	-.147	.0150	.045	-.042	-3.9	1.30	-4.15	-.224	.0344	.049	.180	-3.7		6.19	.215	.0328	-.023	-.022	-3.9
	-.61	-.123	.0134	.044	-.045	-3.9		-2.08	-.128	.0237	.034	.153	-3.7		8.25	.289	.0527	-.032	-.049	-3.9
	.38	-.080	.0120	.042	-.045	-3.9		-1.04	-.082	.0205	.027	.141	-3.7		10.31	.362	.0752	-.041	-.073	-3.9
	.93	-.056	.0114	.041	-.045	-3.9		-.51	-.058	.0194	.024	.130	-3.8		12.37	.433	.1025	-.050	-.100	-3.9
	2.08	-.009	.0113	.037	-.046	-3.9		.48	-.012	.0186	.017	.112	-3.8		14.43	.501	.1345	-.058	-.126	-4.0
	4.20	.096	.0145	.031	-.044	-3.9		1.04	.013	.0189	.013	.105	-3.8		16.49	.568	.1715	-.064	-.147	-4.0
	6.33	.200	.0256	.026	-.049	-3.9		2.11	.060	.0206	.006	.076	-3.8		17.53	.601	.1922	-.066	-.159	-4.0
	8.42	.305	.0437	.019	-.057	-3.9		4.14	.152	.0275	-.009	.036	-3.8							
	10.55	.403	.0741	.020	-.083	-3.9		6.21	.249	.0408	-.024	.002	-3.9	1.90	-4.11	-.159	.0272	.030	.143	-3.8
	12.68	.514	.1147	.013	-.083	-3.9		8.28	.344	.0616	-.037	-.035	-3.9		-2.06	-.087	.0190	.020	.113	-3.8
	14.81	.627	.1638	.006	-.089	-3.9		10.35	.438	.0898	-.050	-.071	-3.9		-1.02	-.051	.0167	.015	.097	-3.8
	16.96	.730	.2198	.002	-.089	-3.9		12.43	.528	.1243	-.063	-.106	-3.9		-.50	-.033	.0162	.012	.089	-3.9
	18.03	.783	.2572	0	-.103	-3.9		14.49	.617	.1633	-.074	-.139	-4.0		.51	0	.0158	.007	.074	-3.9
								16.56	.700	.2120	-.084	-.166	-4.0		1.04	.019	.0160	.005	.066	-3.9
0.90	-4.32	-.293	.0316	.058	.032	-3.8		17.60	.736	.2362	-.088	-.177	-4.0		2.05	.053	.0169	0	.050	-3.9
	-2.19	-.189	.0198	.050	.003	-3.8									4.07	.122	.0229	-.011	.018	-3.9
	-1.14	-.142	.0167	.048	.020	-3.8	1.50	-4.13	-.197	.0310	.041	.162	-3.7		6.12	.192	.0333	-.020	-.009	-4.0
	-.60	-.119	.0154	.048	.021	-3.8		-2.08	-.111	.0213	.028	.131	-3.7		8.17	.258	.0483	-.029	-.037	-4.0
	.39	-.078	.0137	.046	.015	-3.8		-1.04	-.068	.0184	.021	.115	-3.8		10.22	.323	.0685	-.036	-.062	-4.0
	.93	-.052	.0129	.045	.007	-3.9		-.51	-.046	.0174	.018	.105	-3.8		12.27	.386	.0988	-.043	-.089	-4.1
	2.05	.003	.0128	.040	-.001	-3.9		.49	-.004	.0166	.012	.087	-3.8		14.32	.449	.1216	-.049	-.113	-4.1
	4.22	.103	.0168	.034	-.024	-3.9		1.04	.020	.0169	.008	.071	-3.8		16.38	.511	.1553	-.052	-.137	-3.8
															17.41	.541	.1741	-.053	.148	-3.8

NACA

TABLE II.- CONTINUED



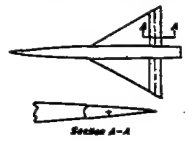
(e) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.32	-0.332	0.0358	0.067	-0.001	-7.9	0.90	8.44	0.273	0.0596	0.049	0.069	-7.8	1.50	2.10	0.040	0.0235	0.015	0.136	-7.7
	-2.22	-.245	.0239	.065	-.014	-7.9		10.60	.377	.0905	.045	.093	-7.8		4.14	.125	.0289	0	.097	-7.8
	-1.17	-.202	.0206	.065	-.017	-7.9		12.72	.476	.1284	.053	.088	-7.8		6.20	.212	.0401	-.013	.059	-7.8
	-.69	-.182	.0192	.064	-.019	-7.9									8.27	.296	.0578	-.024	.027	-7.8
	.33	-.141	.0177	.063	-.088	-7.9	1.20	-4.14	-.281	.0442	.080	.268	-7.6		10.34	.380	.0823	-.036	-.000	-7.9
	.86	-.119	.0152	.062	-.030	-7.9		-2.07	-.179	.0320	.063	.255	-7.7		12.39	.459	.1117	-.047	-.032	-7.9
	1.89	-.072	.0139	.060	-.032	-7.9		-1.04	-.129	.0286	.055	.255	-7.7		14.46	.537	.1469	-.057	-.063	-7.9
	4.08	.019	.0139	.056	-.038	-7.9		-.51	-.103	.0270	.051	.248	-7.7		16.54	.611	.1877	-.064	-.091	-7.9
	6.21	.114	.0189	.052	-.042	-7.9		.46	-.056	.0260	.044	.236	-7.7		17.57	.646	.2095	-.068	-.105	-7.9
	8.33	.215	.0336	.048	-.046	-7.9		.99	-.028	.0257	.040	.228	-7.7							
	10.45	.323	.0590	.047	-.060	-7.9		2.05	.025	.0251	.031	.199	-7.7	1.70	-4.13	-.194	.0358	.046	.203	-7.7
	12.56	.428	.0942	.046	-.066	-7.9		4.18	.189	.0306	.013	.157	-7.7		-2.06	-.116	.0259	.034	.174	-7.7
	14.65	.535	.1360	.043	-.059	-7.9		6.22	.233	.0432	-.003	.122	-7.8		-1.04	-.078	.0229	.029	.160	-7.8
	16.77	.645	.1860	.044	-.075	-7.9		8.30	.343	.0656	-.019	.083	-7.8		-.53	-.057	.0218	.025	.152	-7.7
	17.86	.716	.2212	.040	-.079	-7.9		10.38	.449	.0954	-.035	.050	-7.8		.50	-.018	.0209	.020	.138	-7.7
								12.46	.562	.1345	-.050	.015	-7.8		1.03	.001	.0209	.016	.129	-7.7
0.80	-4.32	-.315	.0391	.067	.030	-7.8		14.55	.644	.1763	-.047	-.022	-7.9		2.09	.042	.0219	.010	.111	-7.8
	-2.21	-.221	.0276	.063	.032	-7.8		16.59	- - -	- - -	-.010	.035	-7.9		4.17	.119	.0272	-.002	.077	-7.8
	-1.16	-.175	.0236	.061	.043	-7.8									6.29	.197	.0382	-.013	.043	-7.8
	-.62	-.152	.0218	.060	.036	-7.8	1.30	-4.14	-.249	.0436	.066	.264	-7.6		8.41	.271	.0544	-.023	.014	-7.8
	.36	-.112	.0196	.059	.026	-7.8		-2.07	-.156	.0322	.052	.245	-7.7		10.53	.344	.0766	-.032	-.015	-7.9
	.89	-.089	.0191	.058	.022	-7.8		-1.04	-.109	.0288	.044	.240	-7.7		12.64	.415	.1039	-.042	-.040	-7.9
	1.97	-.042	.0179	.056	.010	-7.8		-.52	-.085	.0272	.041	.233	-7.7		14.73	.484	.1360	-.049	-.067	-7.9
	4.15	.051	.0192	.052	-.022	-7.9		.45	-.039	.0264	.034	.217	-7.7		16.86	.550	.1729	-.055	-.088	-7.9
	6.28	.144	.0277	.050	-.044	-7.9		.97	-.013	.0260	.030	.204	-7.7		17.91	.582	.1933	-.057	-.101	-7.9
	8.35	.243	.0459	.049	-.062	-7.9		2.03	.033	.0262	.016	.173	-7.7							
	10.53	.339	.0786	.050	-.082	-7.9		4.14	.127	.0315	.007	.131	-7.8	1.90	-4.11	-.171	.0389	.038	.210	-7.7
	12.62	.446	.1087	.043	-.087	-7.9		6.21	.225	.0436	.008	.094	-7.8		-2.06	-.099	.0239	.028	.180	-7.8
	14.76	.556	.1542	.038	-.092	-7.9		8.28	.321	.0636	-.022	.057	-7.8		-1.03	-.064	.0213	.023	.164	-7.8
	16.90	.632	.2045	.036	-.100	-7.9		10.36	.411	.0907	-.035	.023	-7.8		-.51	-.045	.0206	.020	.157	-7.8
	17.95	.696	.2319	.036	-.101	-7.9		12.43	.506	.1264	-.049	-.008	-7.9		.48	-.013	.0197	.016	.142	-7.8
								14.50	.594	.1646	-.061	-.042	-7.9		1.03	.006	.0197	.013	.134	-7.8
0.90	-4.34	-.321	.0460	.076	.112	-7.8		16.57	.680	.2107	-.070	-.071	-7.9		2.07	.041	.0204	.008	.118	-7.8
	-2.21	-.217	.0326	.067	.088	-7.8		17.61	.717	.2346	-.073	-.085	-7.9		4.07	.109	.0253	-.002	.082	-7.9
	-1.14	-.170	.0287	.065	.078	-7.8									6.12	.178	.0348	-.012	.049	-7.9
	-.62	-.145	.0270	.064	.068	-7.8	1.50	-4.13	-.219	.0386	.054	.233	-7.7		8.17	.246	.0490	-.021	.017	-7.9
	.43	-.102	.0247	.061	.063	-7.8		-2.07	-.132	.0280	.041	.206	-7.7		10.21	.310	.0681	-.028	-.005	-8.0
	.91	-.075	.0239	.060	.055	-7.8		-1.04	-.090	.0250	.035	.194	-7.7		12.27	.374	.0917	-.035	-.034	-8.0
	2.01	-.026	.0228	.056	.047	-7.8		-.53	-.068	.0237	.031	.186	-7.7		14.32	.437	.1198	-.040	-.057	-8.0
	4.17	.075	.0249	.049	.024	-7.8		.47	-.026	.0225	.025	.170	-7.7		16.38	.499	.1589	-.044	-.081	-8.0
	6.31	.181	.0373	.045	.024	-7.8		1.04	-.004	.0225	.022	.159	-7.7		17.41	.569	.1714	-.045	-.093	-8.1

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.31	-0.344	0.0466	0.080	0.072	-11.5	0.90	6.27	0.156	0.0439	0.058	0.087	-11.5	1.50	4.18	0.107	0.0336	0.014	0.171	-11.4
	-2.22	-.263	.0353	.080	.063	-11.5		8.39	.249	.0641	.060	.089	-11.5		6.15	.192	.0436	0	.131	-11.4
	-1.18	-.221	.0313	.078	.058	-11.5		10.51	.342	.0944	.063	.143	-11.4		8.21	.274	.0601	.012	.096	-11.4
	-.65	-.198	.0297	.078	.062	-11.5									10.27	.359	.0833	.024	.069	-11.5
	.32	-.167	.0274	.079	.067	-11.5	1.20	-4.13	-.309	.0556	.099	.372	-11.2		12.33	.439	.1120	.036	.035	-11.5
	.84	-.146	.0262	.079	.064	-11.5		-2.07	-.210	.0433	.065	.350	-11.2		14.39	.517	.1462	.045	.002	-11.6
	1.89	-.105	.0239	.078	.048	-11.5		-1.03	-.161	.0400	.078	.344	-11.2		16.46	.592	.1861	.053	-.023	-11.6
	4.01	-.021	.0218	.075	.021	-11.4		-.52	-.136	.0382	.074	.335	-11.2		17.49	.626	.2073	.055	-.032	-11.6
	6.17	.069	.0245	.072	.005	-11.6		.45	-.092	.0360	.067	.322	-11.2							
	8.29	.167	.0365	.069	-.001	-11.6		.97	-.066	.0353	.063	.317	-11.2	1.70	-4.12	-.206	.0428	.056	.204	-11.2
	10.35	.267	.0566	.068	-.017	-11.6		2.03	-.011	.0345	.058	.285	-11.3		-2.06	-.129	.0325	.044	.158	-11.3
	12.47	.371	.0890	.067	-.038	-11.6		4.13	.096	.0381	.033	.227	-11.3		-1.03	-.090	.0292	.038	.244	-11.3
	14.59	.478	.1278	.067	-.049	-11.6		6.17	.201	.0492	.016	.186	-11.4		-.52	-.070	.0280	.036	.236	-11.3
	16.71	.585	.1742	.068	-.069	-11.6		8.23	.310	.0704	-.001	.162	-11.4		.46	-.035	.0268	.030	.224	-11.3
	17.78	.647	.2053	.066	.064	-11.5		10.31	.421	.0991	-.017	.133	-11.4		.99	-.015	.0265	.027	.216	-11.3
								12.39	.520	.1348	-.024	.127	-11.4		2.07	.025	.0268	.021	.192	-11.3
0.80	-4.31	-.320	.0490	.075	.141	-11.4									4.08	.102	.0309	.009	.148	-11.4
	-2.20	-.285	.0369	.071	.134	-11.4	1.30	-4.13	-.271	.0534	.082	.359	-11.2		6.14	.178	.0408	-.002	.114	-11.4
	-1.15	-.179	.0330	.068	.144	-11.4		-2.06	-.178	.0524	.069	.335	-11.2		8.19	.253	.0533	-.013	.079	-11.5
	-.62	-.156	.0315	.067	.149	-11.4		-1.04	-.134	.0378	.062	.325	-11.2		10.25	.327	.0760	-.023	.051	-11.5
	.36	-.119	.0294	.066	.151	-11.4		-.52	-.111	.0360	.059	.316	-11.2		12.31	.401	.1018	-.032	.019	-11.5
	.89	-.097	.0282	.065	.142	-11.4		.45	-.068	.0339	.052	.300	-11.2		14.36	.469	.1320	-.040	-.007	-11.6
	1.95	-.056	.0268	.065	.125	-11.5		.98	-.044	.0334	.048	.293	-11.2		16.42	.536	.1676	-.045	-.032	-11.6
	4.13	.034	.0270	.062	.097	-11.5		2.07	.005	.0331	.040	.282	-11.3		17.45	.569	.1872	-.048	-.045	-11.6
	6.23	.131	.0348	.058	.065	-11.5		4.13	.102	.0371	.023	.267	-11.3							
	8.35	.233	.0527	.056	.073	-11.5		6.16	.195	.0474	.008	.166	-11.4	1.90	-4.11	-.183	.0400	.046	.267	-11.3
	10.47	.333	.0786	.056	.057	-11.5		8.22	.292	.0663	-.006	.140	-11.4		-2.08	-.112	.0306	.037	.233	-11.3
	12.60	.443	.1144	.048	.030	-11.5		10.29	.388	.0923	-.021	.109	-11.4		-1.03	-.077	.0276	.031	.217	-11.3
	14.72	.543	.1560	.044	.020	-11.5		12.35	.479	.1245	-.034	.070	-11.5		-.51	-.059	.0267	.029	.209	-11.3
	16.84	.637	.2067	.047	.002	-11.6		14.42	.566	.1629	-.046	.031	-11.5		.47	-.027	.0255	.024	.195	-11.3
	17.89	.667	.2312	.053	-.003	-11.6		16.49	.649	.2073	-.055	-.001	-11.6		.99	-.009	.0253	.022	.187	-11.3
								17.52	.687	.2307	-.058	-.004	-11.6		2.07	.007	.0257	.017	.172	-11.4
0.90	-4.33	-.341	.0600	.094	.212	-11.4									4.07	.096	.0296	.005	.133	-11.4
	-2.21	-.236	.0445	.082	.177	-11.4	1.50	-4.12	-.234	.0473	.067	.321	-11.2		6.12	.164	.0383	-.003	.099	-11.4
	-1.15	-.190	.0405	.081	.176	-11.4		-2.06	-.149	.0362	.054	.287	-11.2		8.17	.231	.0518	-.012	.066	-11.5
	-.62	-.169	.0381	.078	.179	-11.4		-1.03	-.107	.0327	.048	.280	-11.2		10.22	.296	.0701	-.020	.039	-11.5
	.37	-.117	.0337	.072	.181	-11.4		-.52	-.086	.0311	.043	.272	-11.3		12.27	.362	.0933	-.027	.011	-11.4
	.90	-.096	.0330	.072	.175	-11.4		.46	-.047	.0294	.039	.257	-11.3		14.32	.424	.1207	-.032	-.011	-11.6
	1.97	-.048	.0311	.069	.157	-11.4		.99	-.025	.0290	.035	.247	-11.3		16.38	.485	.1529	-.036	-.037	-11.6
	4.16	.049	.0328	.064	.114	-11.5		2.07	.019	.0294	.028	.220	-11.3		17.41	.516	.1713	-.037	-.049	-11.6

TABLE II.- CONCLUDED

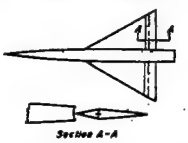


(g) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.31	-0.349	0.0577	0.084	0.149	-16.0	0.90	6.26	0.141	0.0508	0.069	0.206	-15.9	1.50	2.06	-0.005	0.0386	0.042	0.280	-15.7
	-2.23	-.271	.0465	.085	.140	-16.0		8.39	.243	.0693	.065	.186	-15.9		4.12	.083	.0413	.028	.228	-15.8
	-1.18	-.227	.0420	.083	.132	-16.0		10.51	.330	.1028	.075	.165	-15.9		6.15	.169	.0498	.014	.188	-15.8
	-.65	-.202	.0397	.081	.141	-16.0									8.21	.254	.0653	.001	.153	-15.9
	.32	-.169	.0373	.082	.149	-16.0	1.20	-4.13	-.337	.0709	.116	.431	-15.6		10.27	.339	.0873	-.012	.128	-15.9
	.84	-.149	.0361	.082	.147	-16.0		-2.07	-.238	.0574	.101	.413	-15.6		12.33	.421	.1151	-.023	.092	-16.0
	1.89	-.112	.0338	.082	.144	-16.0		-1.04	-.199	.0543	.099	.396	-15.6		14.40	.499	.1486	-.033	.058	-16.0
	4.00	-.034	.0310	.083	.114	-16.0		-.52	-.176	.0524	.095	.391	-15.6		16.46	.573	.1870	-.040	.027	-16.0
	6.14	.048	.0329	.083	.092	-16.0		.45	-.135	.0495	.090	.382	-15.7		17.49	.606	.2074	-.042	.021	-16.0
	8.23	.143	.0441	.081	.083	-16.0		.96	-.107	.0483	.086	.376	-15.7							
	10.34	.242	.0648	.082	.060	-16.0		2.01	-.053	.0468	.075	.349	-15.7	1.70	-4.11	-.221	.0526	.066	.348	15.7
	12.45	.345	.0936	.081	.038	-16.0		4.17	.061	.0478	.054	.291	-15.8		-2.06	-.147	.0420	.055	.310	15.7
	14.56	.447	.1300	.081	.022	-16.0		6.20	.170	.0581	.036	.253	-15.8		-1.03	-.108	.0382	.050	.290	15.7
	16.69	.555	.1759	.086	.007	-16.1		8.24	.277	.0761	.019	.230	-15.8		-.52	-.090	.0368	.047	.282	15.7
	17.74	.598	.1986	.088	0	-16.1		10.32	.393	.1049	.001	.198	-15.8		.45	-.055	.0353	.042	.270	15.8
								12.40	.493	.1394	-.005	.170	-15.9		.98	-.035	.0349	.039	.265	15.8
0.80	-4.32	-.331	.0601	.082	.203	-15.9		14.48	.564	.1744	.002	- - -	-15.7		4.11	.089	.0379	.020	.197	15.8
	-2.21	-.239	.0472	.078	.188	-15.9									6.14	.161	.0461	.009	.163	15.9
	-1.16	-.195	.0434	.077	.188	-15.9	1.30	-4.13	-.289	.0668	.094	.427	-15.6		8.19	.237	.0601	-.002	.129	15.9
	-.64	-.175	.0415	.077	.189	-15.9		-2.07	-.204	.0540	.084	.393	-15.6		10.25	.311	.0798	-.013	.101	15.9
	.35	-.138	.0390	.076	.189	-15.9		-1.04	-.163	.0508	.079	.382	-15.6		12.30	.383	.1046	-.022	.070	16.0
	.88	-.114	.0375	.074	.189	-15.9		-.52	-.141	.0486	.076	.373	-15.7		14.36	.453	.1343	-.030	.035	16.0
	1.94	-.072	.0353	.073	.180	-15.9		.45	-.101	.0460	.070	.362	-15.7		16.42	.520	.1691	-.035	.009	16.0
	4.12	.021	.0349	.070	.168	-15.9		.96	-.076	.0451	.067	.356	-15.7		17.45	.555	.1888	- - -	- -	15.9
	6.22	.115	.0415	.066	.155	-15.9		2.02	-.027	.0440	.058	.329	-15.7							
	8.34	.217	.0582	.065	.140	-15.9		4.13	.073	.0461	.041	.274	-15.8							
	10.47	.319	.0846	.066	.130	-15.9		6.19	.170	.0554	.025	.233	-15.8	1.90	-4.10	-.195	.0489	.024	.317	-15.7
	12.60	.433	.1193	.057	.094	-16.0		8.23	.266	.0726	.011	.204	-15.8		-2.06	-.127	.0387	.045	.277	-15.8
	14.72	.536	.1607	.052	.082	-16.0		10.29	.364	.0974	-.005	.170	-15.9		-1.03	-.092	.0356	.041	.257	-15.8
	16.85	.638	.2124	.052	.072	-16.0		12.36	.455	.1286	-.018	.136	-15.9		-.52	-.075	.0345	.038	.250	-15.8
	17.90	.675	.2359	.055	.066	-16.0		14.42	.546	.1667	-.031	.097	-16.0		.46	-.044	.0330	.034	.238	-15.8
								16.49	.627	.2096	-.038	.061	-16.0		.98	-.025	.0325	.031	.230	-15.8
0.90	-4.47	-.362	.0767	.106	.298	-15.8		17.53	.661	.2309	-.039	.055	-16.0		2.06	.010	.0324	.026	.216	-15.8
	-2.30	-.295	.0566	.094	.280	-15.8									4.10	.081	.0358	.015	.174	-15.9
	-1.22	-.205	.0503	.090	.279	-15.8	1.50	-4.12	-.251	.0582	.078	.380	-15.6		6.12	.148	.0432	.006	.140	-15.9
	-.68	-.180	.0471	.087	.269	-15.8		-2.06	-.171	.0469	.067	.341	-15.7		8.17	.216	.0558	-.003	.108	-15.9
	.33	-.143	.0450	.087	.269	-15.8		-1.03	-.131	.0434	.061	.332	-15.7		10.21	.288	.0734	-.012	.081	-16.0
	.87	-.117	.0426	.084	.252	-15.8		-.52	-.109	.0414	.058	.321	-15.7		12.26	.349	.0953	-.019	.052	-16.0
	1.95	-.074	.0413	.084	.245	-15.8		.45	-.072	.0393	.052	.310	-15.7		14.32	.408	.1219	-.024	.023	-16.0
	4.15	.030	.0401	.074	.211	-15.9		.98	-.049	.0388	.049	.304	-15.7		16.37	.470	.1536	-.028	.002	-16.1
															17.40	.501	.1718	-.029	-.008	-16.1

NACA

TABLE III.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 50-PERCENT BALANCE FLAP (TRUE CONTOUR WING PROFILE; SHARP NOSE FLAP). DATA FOR TWO FLAPS. $R = 4.4 \times 10^6$



(a) Nominal δ, 4°

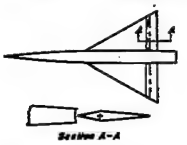
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.18	-0.114	0.0124	-0.084	-0.008	4.4	0.90	4.25	0.280	0.0279	-0.058	-0.056	4.3	1.50	3.91	0.190	0.0289	-0.040	-0.168	3.9
	-2.06	-.021	.0095	-.088	-.016	4.4		6.39	.393	.0484	-.091	-.071	4.3		5.88	.276	.0380	-.059	-.198	3.8
	-.95	.026	.0090	-.090	-.018	4.4		8.51	.504	.0786	-.069	-.095	4.2		7.86	.361	.0631	-.064	-.223	3.8
	-.41	.049	.0093	-.091	-.020	4.4		10.62	.618	.1183	-.077	-.108	4.2		9.84	.439	.0888	-.073	-.254	3.7
	.54	.094	.0104	-.092	-.024	4.4									11.80	.518	.1196	-.066	-.282	3.6
	1.08	.115	.0117	-.093	-.026	4.4	1.20	-4.11	-.169	.0238	.008	-.046	4.3		13.78	.592	.1561	-.096	-.310	3.5
	2.19	.160	.0149	-.095	-.028	4.4		-2.11	-.071	.0167	-.008	-.085	4.2		15.76	.669	.1977	-.105	-.337	3.4
	4.21	.249	.0237	-.098	-.032	4.4		-1.05	-.021	.0149	-.016	-.118	4.1		16.75	.705	.2203	-.108	-.348	3.4
	6.30	.349	.0393	-.044	-.038	4.4		-.47	.006	.0151	-.020	-.126	4.1							
	8.41	.451	.0665	-.047	-.049	4.4		.48	.027	.0157	-.028	-.151	4.0	1.70	-4.10	-.142	.0231	.011	-.018	4.4
	10.51	.557	.1065	-.047	-.060	4.3		1.01	.068	.0166	-.031	-.164	4.0		-2.05	-.065	.0167	0	-.048	4.3
	12.63	.652	.1474	-.043	-.068	4.3		2.03	.138	.0197	-.038	-.181	3.9		-1.06	-.027	.0156	-.006	-.066	4.2
	14.73	.734	.1908	-.042	-.096	4.3		4.08	.238	.0304	-.055	-.207	3.9		-.52	-.006	.0145	-.009	-.076	4.2
	16.86	.805	.2357	-.051	-.085	4.3		6.12	.338	.0478	-.078	-.235	3.8		.48	.034	.0155	-.015	-.093	4.2
	17.92	.935	.2888	-.051	-.096	4.3		8.21	.445	.0738	-.069	-.256	3.7		1.00	.055	.0164	-.018	-.104	4.1
								10.26	.550	.1066	-.106	-.273	3.7		2.09	.095	.0190	-.024	-.121	4.1
0.80	-4.22	-.121	.0137	-.024	-.011	4.4		12.33	.679	.1524	-.128	-.289	3.6		4.08	.178	.0277	-.035	-.149	4.0
	-2.08	-.023	.0095	-.090	-.020	4.4									6.13	.249	.0414	-.045	-.177	3.9
	-.94	.028	.0092	-.093	-.023	4.4	1.30	-4.11	-.164	.0263	.010	-.027	4.4		8.18	.325	.0603	-.059	-.204	3.8
	-.53	.054	.0095	-.035	-.025	4.4		-2.06	-.071	.0192	-.004	-.070	4.2		10.22	.393	.0838	-.064	-.226	3.7
	.52	.010	.0108	-.037	-.029	4.4		-1.04	-.025	.0176	-.011	-.092	4.2		12.27	.464	.1130	-.073	-.253	3.7
	1.09	.125	.0121	-.038	-.030	4.4		-.52	-.001	.0169	-.014	-.105	4.1		14.32	.532	.1463	-.081	-.283	3.6
	2.13	.166	.0154	-.039	-.028	4.4		.48	.046	.0174	-.022	-.128	4.1		16.37	.596	.1845	-.087	-.307	3.5
	4.23	.264	.0259	-.045	-.037	4.4		1.01	.070	.0184	-.025	-.139	4.0		17.40	.629	.2059	-.089	-.319	3.5
	6.35	.371	.0442	-.052	-.046	4.4		2.03	.116	.0218	-.032	-.158	4.0							
	8.49	.496	.0750	-.060	-.069	4.3		4.08	.210	.0318	-.046	-.188	3.9	1.90	-4.08	-.189	.0239	.009	-.007	4.4
	10.60	.580	.1090	-.056	-.081	4.3		6.14	.305	.0478	-.060	-.217	3.8		-2.04	-.060	.0176	0	-.040	4.3
	12.70	.655	.1479	-.049	-.114	4.2		8.19	.398	.0710	-.074	-.246	3.7		-1.04	-.025	.0161	-.005	-.056	4.3
	14.82	.763	.2011	-.056	-.135	4.2		10.25	.490	.1014	-.087	-.280	3.6		-.52	-.006	.0158	-.008	-.064	4.3
	16.92	.865	.2619	-.064	-.148	4.1		12.32	.580	.1384	-.096	-.310	3.5		.47	.029	.0162	-.013	-.080	4.2
	17.99	.914	.2945	-.064	-.163	4.1		14.36	.668	.1816	-.113	-.338	3.4		1.00	.048	.0168	-.015	-.088	4.2
								16.42	.752	.2309	-.124	-.358	3.4		2.08	.084	.0189	-.020	-.104	4.1
0.90	-4.23	-.132	.0150	-.085	-.005	4.4									4.06	.158	.0264	-.029	-.132	4.1
	-2.08	-.024	.0092	-.033	-.009	4.4	1.50	-3.96	-.153	.0238	.012	-.019	4.4		6.11	.221	.0387	-.038	-.159	4.0
	-.96	.030	.0087	-.036	-.014	4.3		-1.99	-.068	.0174	-.002	-.059	4.3		8.15	.287	.0556	-.046	-.183	3.9
	-.40	.058	.0092	-.040	-.020	4.3		-1.03	-.026	.0160	-.008	-.080	4.2		10.20	.352	.0769	-.053	-.203	3.8
	.56	.105	.0108	-.044	-.028	4.3		-.52	-.004	.0156	-.011	-.090	4.2		12.24	.415	.1021	-.061	-.230	3.8
	1.08	.130	.0121	-.044	-.027	4.3		.43	.040	.0160	-.018	-.111	4.1		14.29	.474	.1321	-.066	-.254	3.7
	2.15	.174	.0159	-.045	-.031	4.3		.95	.062	.0170	-.021	-.121	4.1		16.33	.532	.1664	-.070	-.279	3.6
								1.93	.105	.0197	-.027	-.138	4.0		17.35	.561	.1854	-.071	-.291	3.6

(b) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.21	-0.148	0.0135	-0.020	0.001	2.5	0.90	6.33	0.347	0.0405	-0.041	-0.034	2.4	1.50	4.08	0.180	0.0273	-0.033	-0.185	2.1
	-2.09	-.093	.0093	-.013	-.003	2.4		8.49	.473	.0715	-.050	-.068	2.3		6.14	.266	.0414	-.046	-.156	2.0
	-1.03	-.033	.0084	-.015	-.009	2.4		10.60	.597	.1089	-.059	-.081	2.3		8.19	.350	.0616	-.057	-.180	1.9
	-.45	.018	.0084	-.016	-.010	2.4									10.24	.428	.0878	-.068	-.208	1.8
	.51	.056	.0091	-.017	-.014	2.4	1.20	-4.11	-.185	.0243	.019	.016	2.5		12.30	.508	.1197	-.079	-.236	1.7
	1.04	.078	.0098	-.018	-.017	2.4		-2.05	-.065	.0163	.003	-.023	2.4		14.35	.583	.1564	-.089	-.262	1.6
	2.10	.127	.0121	-.019	-.021	2.4		-1.06	-.039	.0145	-.001	-.047	2.3		16.40	.657	.1989	-.097	-.289	1.6
	4.19	.214	.0197	-.024	-.026	2.4		-.53	-.013	.0141	-.008	-.059	2.3		17.43	.693	.2226	-.101	-.301	1.5
	6.28	.318	.0345	-.029	-.032	2.4		.47	.037	.0143	-.016	-.082	2.2							
	8.39	.417	.0590	-.032	-.041	2.4		1.01	.063	.0151	-.019	-.094	2.2	1.70	-4.08	-.150	.0236	.017	.023	2.3
	10.50	.523	.0920	-.032	-.052	2.4		2.04	.113	.0177	-.027	-.112	2.1		-2.04	-.072	.0165	.005	-.009	2.4
	12.60	.620	.1308	-.028	-.061	2.3		4.09	.212	.0272	-.042	-.142	2.0		-1.00	-.034	.0148	0	-.026	2.4
	14.70	.722	.1792	-.030	-.080	2.3		6.14	.318	.0435	-.059	-.178	1.9*		-.53	-.015	.0144	-.003	-.037	2.3
	16.84	.850	.2420	-.038	-.072	2.3		8.20	.424	.0684	-.075	-.206	1.9		.48	.025	.0146	-.009	-.055	2.3
	17.90	.901	.2742	-.038	-.076	2.3		10.27	.529	.1009	-.091	-.229	1.8		1.00	.046	.0153	-.012	-.069	2.2
								12.33	.651	.1446	-.113	-.251	1.7		2.03	.087	.0177	-.018	-.082	2.2
0.80	-4.10	-.158	.0149	-.007	.001	2.5									4.08	.163	.0256	-.029	-.113	2.1
	-2.08	-.060	.0093	-.013	-.005	2.4	1.30	-4.10	-.178	.0269	.020	.025	2.5		6.13	.240	.0388	-.040	-.142	2.0
	-1.04	-.011	.0082	-.016	-.009	2.4		-2.05	-.083	.0189	.005	-.015	2.4		8.18	.316	.0573	-.050	-.167	1.9
	-.45	.018	.0082	-.017	-.009	2.4		-1.01	-.038	.0170	-.002	-.037	2.3		10.22	.385	.0809	-.059	-.188	1.9
	.49	.059	.0090	-.019	-.013	2.4		-.53	-.015	.0165	-.006	-.049	2.3		12.27	.456	.1088	-.067	-.216	1.8
	1.01	.083	.0099	-.020	-.014	2.4		.47	.032	.0166	-.013	-.072	2.2		14.32	.523	.1414	-.075	-.240	1.7
	2.05	.130	.0126	-.023	-.018	2.4		.99	.056	.0175	-.016	-.082	2.2		16.38	.587	.1792	-.081	-.263	1.6
	4.10	.226	.0213	-.029	-.028	2.4		2.04	.103	.0203	-.023	-.102	2.2		17.40	.622	.2006	-.083	-.275	1.6
	6.17	.334	.0380	-.035	-.029	2.4		4.09	.196	.0293	-.037	-.136	2.0							
	8.23	.444	.0661	-.039	-.048	2.3		6.14	.290	.0443	-.051	-.166	2.0	1.90	-4.08	-.135	.0234	.014	.022	2.5
	10.31	.548	.1008	-.039	-.056	2.3		8.20	.389	.0671	-.065	-.195	1.9		-2.04	-.065	.0187	.004	-.008	2.4
	12.36	.623	.1369	-.035	-.100	2.2*		10.25	.477	.0966	-.078	-.224	1.8		-1.00	-.031	.0152	-.001	-.024	2.4
	14.44	.733	.1912	-.043	-.108	2.2		12.31	.566	.1324	-.090	-.257	1.7		-.52	-.014	.0149	-.003	-.032	2.4
	16.50	.839	.2514	-.058	-.119	2.2		14.36	.651	.1744	-.102	-.286	1.6		.46	.022	.0151	-.008	-.048	2.3
	17.62	.886	.2848	—	-.135	2.2		16.42	.734	.2221	-.113	-.313	1.5		.98	.041	.0157	-.011	-.057	2.3
								17.46	.775	.2484	-.117	-.325	1.5		2.03	.077	.0177	-.016	-.072	2.2
0.90	-4.20	-.168	.0169	-.005	-.000	2.5									4.07	.146	.0250	-.029	-.101	2.1
	-2.12	-.064	.0091	-.014	-.005	2.4	1.50	-4.10	-.164	.0249	.018	.022	2.5		6.11	.214	.0369	-.034	-.126	2.1
	-1.05	-.011	.0077	-.018	-.010	2.4		-2.05	-.077	.0173	.005	-.013	2.4		8.15	.281	.0533	-.042	-.152	2.0
	-.45	.015	.0077	-.020	-.011	2.4		-1.01	-.036	.0155	-.001	-.033	2.4		10.20	.346	.0744	-.049	-.170	1.9
	.53	.065	.0086	-.023	-.018	2.4		-.53	-.015	.0148	-.004	-.044	2.3		12.24	.405	.0968	-.056	-.196	1.9
	1.07	.089	.0096	-.024	-.019	2.4		.48	.028	.0150	-.011	-.064	2.3		14.29	.464	.1264	-.062	-.219	1.8
	2.13	.140	.0125	-.027	-.021	2.4		1.00	.051	.0158	-.014	-.074	2.2		16.33	.525	.1623	-.069	-.240	1.7
	4.23	.241	.0227	-.034	-.026	2.4		2.04	.099	.0189	-.021	-.093	2.2		17.36	.554	.1812	-.066	-.258	1.7

NACA

TABLE III.- CONTINUED



(c) Nominal δ, 0°

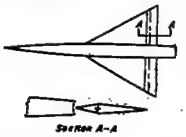
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.18	-0.183	0.0163	0.006	0.019	0.4	0.90	6.33	0.308	0.0354	-0.022	-0.007	0	1.50	4.09	0.159	0.0260	-0.027	-0.073	0.1
	-2.07	-.090	.0106	.001	.013	.4		8.46	.424	.0631	-.030	-.025	0		6.14	.259	.0395	-.039	-.109	0
	-1.03	-.047	.0089	0	.009	.4		10.58	.528	.0980	-.035	-.034	0		8.19	.340	.0594	-.050	-.132	0
	-.53	-.024	.0085	-.001	.007	.4									10.24	.418	.0892	-.062	-.168	-.1
	.48	.020	.0085	-.003	.005	.4	1.20	-4.10	-.202	.0260	.030	.078	.6		12.29	.497	.1164	-.073	-.191	-.1
	.99	.042	.0089	-.003	.003	.4		-2.04	-.101	.0170	.013	.039	.5		14.34	.573	.1528	-.083	-.218	-.2
	2.07	.088	.0108	-.005	.001	.4		-1.01	-.053	.0148	.006	.019	.4		16.40	.646	.1947	-.090	-.243	-.3
	4.16	.179	.0171	-.009	-.005	.3		-.49	-.027	.0142	.003	.007	.4		17.43	.681	.2174	-.094	-.252	-.3
	6.26	.277	.0306	-.014	-.009	.3		.47	.080	.0141	-.005	-.014	.3							
	8.38	.383	.0533	-.017	-.017	.3		1.00	.046	.0147	-.009	-.023	.3	1.70	-4.08	-.161	.0248	.022	.066	.6
	10.48	.485	.0840	-.018	-.026	.3		2.04	.096	.0169	-.016	-.043	.2		-2.04	-.081	.0170	.011	.032	.5
	12.59	.586	.1225	-.015	-.045	.3		4.09	.195	.0297	-.031	-.076	.1		-1.00	-.044	.0151	.005	.015	.4
	14.70	.690	.1693	-.016	-.060	.2		6.15	.299	.0411	-.047	-.113	0		-.47	-.023	.0146	.002	.005	.4
	16.84	.819	.2318	-.023	-.051	.3		8.21	.405	.0654	-.054	-.143	0		.47	.016	.0145	-.004	-.010	.3
	17.89	.871	.2634	-.024	-.056	.3		10.28	.507	.0970	-.077	-.166	0		.99	.037	.0150	-.007	-.020	.3
								12.33	.621	.1392	-.097	-.198	-.1		2.03	.078	.0171	-.013	-.038	.2
0.80	-4.21	-.195	.0181	.009	.022	.4									4.08	.154	.0247	-.024	-.069	.1
	-2.09	-.096	.0107	.003	.013	.4	1.30	-4.09	-.191	.0282	.028	.082	.6		6.13	.231	.0373	-.035	-.100	0
	-1.03	-.049	.0088	0	.011	.4		-2.04	-.096	.0195	.013	.041	.5		8.17	.309	.0554	-.045	-.126	0
	-.56	-.026	.0084	-.001	.010	.4		-1.01	-.050	.0172	.006	.020	.4		10.22	.378	.0784	-.054	-.149	0
	.47	.020	.0084	-.003	.006	.4		-.50	-.025	.0165	.003	.008	.4		12.26	.448	.1062	-.063	-.177	-.1
	1.06	.044	.0089	-.004	.006	.4		.47	.019	.0163	-.004	-.011	.3		14.32	.515	.1384	-.070	-.201	-.2
	2.09	.092	.0109	-.007	.002	.4		1.00	.043	.0171	-.007	-.022	.3		16.37	.580	.1757	-.076	-.223	-.2
	4.19	.190	.0184	-.013	-.004	.3		2.04	.090	.0193	-.014	-.042	.2		17.40	.611	.1963	-.078	-.234	-.3
	6.31	.294	.0332	-.019	-.009	.3		4.09	.182	.0278	-.028	-.077	.1							
	8.43	.403	.0595	-.022	-.025	.3		6.15	.277	.0430	-.042	-.111	0	1.90	-4.08	-.144	.0240	.018	.061	.5
	10.54	.498	.0911	-.021	-.027	.3		8.20	.371	.0644	-.056	-.138	0		-2.03	-.074	.0167	.009	.029	.4
	12.67	.596	.1316	-.022	-.076	.2		10.25	.463	.0932	-.069	-.168	-.1		-1.00	-.038	.0151	.004	.014	.4
	14.71	.706	.1813	-.032	-.080	.2		12.31	.551	.1284	-.082	-.199	-.1		-.47	-.020	.0147	.002	.005	.4
	16.90	.814	.2423	-.039	-.091	.1		14.36	.637	.1696	-.093	-.229	-.2		.46	.015	.0147	-.003	-.008	.3
	17.97	.857	.2722	-.038	-.105	.1		16.42	.719	.2169	-.103	-.256	-.3		.98	.033	.0151	-.006	-.017	.3
															2.03	.070	.0170	-.011	-.033	.3
0.90	-4.22	-.207	.0187	.012	.020	0	1.50	-4.10	-.174	.0264	.025	.072	.6		4.07	.138	.0234	-.021	-.062	.2
	-2.11	-.101	.0101	.004	.017	0		-2.05	-.088	.0179	.012	.035	.5		6.12	.207	.0350	-.029	-.090	.1
	-1.03	-.052	.0081	.001	.013	0		-.99	-.038	.0156	.006	.015	.4		8.15	.272	.0514	-.037	-.116	.0
	-.53	-.028	.0076	-.001	.012	0		-.47	-.024	.0149	.002	.004	.4		10.20	.339	.0720	-.045	-.136	0
	.48	.021	.0077	-.004	.009	0		.47	.018	.0147	-.004	-.014	.3		12.25	.395	.0965	-.052	-.161	0
	1.03	.047	.0082	-.005	.009	0		.99	.040	.0154	-.008	-.024	.3		14.29	.459	.1254	-.057	-.184	-.1
	2.10	.096	.0104	-.008	.004	0		2.03	.084	.0178	-.014	-.042	.2		16.34	.518	.1588	-.061	-.204	-.2
	4.21	.202	.0190	-.017	-.002	0									17.36	.547	.1776	-.062	-.216	-.2

(d) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.19	-0.212	0.0186	0.020	0.033	-1.4	0.90	6.31	0.271	0.0315	-0.004	0.005	-1.4	1.50	4.09	0.159	0.0251	-0.020	-0.032	-1.6
	-2.10	-.123	.0118	.016	.028	-1.4		8.44	.378	.0566	-.009	-.012	-1.5		6.14	.245	.0381	-.033	-.065	-1.7
	-1.05	-.079	.0097	.015	.024	-1.4		10.56	.486	.0908	-.015	-.037	-1.5		8.20	.329	.0573	-.044	-.093	-1.7
	-.51	-.056	.0090	.014	.024	-1.4									10.25	.408	.0825	-.055	-.121	-1.8
	.49	-.012	.0088	.013	.021	-1.4									12.29	.486	.1128	-.066	-.148	-1.9
	1.03	.010	.0087	.012	.020	-1.4	1.20	-4.10	-.218	.0280	.040	.139	-1.0		14.35	.562	.1486	-.076	-.177	-2.0
	2.08	.057	.0102	.010	.016	-1.4		-2.04	-.118	.0183	.024	.100	-1.2		16.40	.635	.1895	-.083	-.200	-2.1
	4.14	.146	.0149	.006	.008	-1.4		-1.01	-.068	.0172	.017	.082	-1.2		17.43	.670	.2120	-.087	-.209	-2.2
	6.24	.241	.0268	.001	.003	-1.4		-.48	-.043	.0149	.013	.071	-1.2							
	8.34	.342	.0474	-.003	-.003	-1.5		.52	.007	.0144	.006	.049	-1.3	1.70	-4.08	-.168	.0267	.028	.105	-1.1
	10.44	.446	.0769	-.004	-.012	-1.5		1.00	.030	.0148	.002	.039	-1.3		-2.04	-.090	.0183	.016	.072	-1.2
	12.56	.547	.1138	-.002	-.030	-1.5		2.04	.079	.0165	-.005	.017	-1.4		-1.00	-.051	.0158	.011	.054	-1.3
	14.66	.652	.1591	-.003	-.038	-1.5		4.10	.177	.0243	-.020	-.016	-1.5		-.48	-.030	.0158	.008	.045	-1.3
	16.77	.758	.2133	-.004	-.045	-1.5		6.16	.281	.0387	-.036	-.052	-1.6		.52	.010	.0149	.002	.027	-1.4
	17.86	.835	.2510	-.002	-.037	-1.5		8.22	.385	.0620	-.052	-.080	-1.7		.99	.029	.0153	-.001	.019	-1.4
								10.28	.489	.0925	-.067	-.103	-1.8		2.04	.069	.0169	-.007	.001	-1.5
0.80	-4.21	-.227	.0209	.025	.026	-1.4		12.34	.599	.1336	-.083	-.134	-1.8		4.08	.145	.0239	-.019	-.032	-1.6
	-2.11	-.128	.0123	.019	.022	-1.4									6.13	.223	.0361	-.029	-.063	-1.7
	-1.06	-.082	.0099	.017	.019	-1.4	1.30	-4.10	-.203	.0302	.036	.134	-1.1		8.18	.298	.0534	-.039	-.090	-1.7
	-.52	-.058	.0092	.016	.019	-1.4		-2.05	-.109	.0207	.022	.064	-1.2		10.22	.368	.0758	-.048	-.113	-1.8
	.44	-.012	.0086	.014	.017	-1.4		-1.01	-.063	.0188	.015	.075	-1.2		12.27	.437	.1030	-.057	-.141	-1.9
	1.03	.011	.0087	.013	.015	-1.4		-.48	-.038	.0178	.011	.064	-1.3		14.32	.504	.1344	-.065	-.169	-2.0
	2.11	.060	.0101	.010	.012	-1.4		.52	.008	.0167	.004	.042	-1.3		16.38	.568	.1710	-.070	-.186	-2.0
	4.18	.156	.0163	.004	.006	-1.4		1.00	.031	.0173	.001	.032	-1.4		17.40	.601	.1913	-.072	-.196	-2.1
	6.29	.256	.0291	-.002	-.003	-1.4		2.05	.077	.0192	-.006	.011	-1.4							
	8.41	.363	.0534	-.006	-.003	-1.5		4.10	.169	.0270	-.020	-.024	-1.5							
	10.52	.459	.0840	-.004	-.009	-1.5		6.15	.264	.0407	-.034	-.060	-1.6	1.90	-4.08	-.149	.0261	.023	.094	-1.2
	12.64	.561	.1232	-.009	-.024	-1.5		8.20	.359	.0622	-.046	-.087	-1.7		-2.03	-.080	.0183	.013	.063	-1.3
	14.76	.671	.1724	-.015	-.030	-1.5		10.26	.449	.0908	-.059	-.117	-1.8		-1.00	-.045	.0162	.008	.048	-1.3
	16.88	.777	.2298	-.023	-.035	-1.5		12.32	.538	.1245	-.078	-.149	-1.9		-.49	-.026	.0157	.006	.040	-1.3
	17.93	.822	.2592	-.023	-.029	-1.5		14.37	.623	.1649	-.084	-.177	-2.0		.47	.009	.0153	.001	.021	-1.4
								16.43	.704	.2107	-.093	-.204	-2.1		.99	.026	.0156	-.002	.014	-1.4
0.90	-4.24	-.243	.0224	.031	.045	-1.3		17.46	.743	.2358	-.098	-.215	-2.1		2.03	.062	.0171	-.007	-.000	-1.5
	-2.12	-.137	.0123	.023	.043	-1.4									4.07	.131	.0233	-.016	-.029	-1.5
	-1.07	-.088	.0095	.020	.038	-1.4	1.50	-4.09	-.183	.0280	.032	.115	-1.1		6.11	.199	.0342	-.025	-.058	-1.6
	-.53	-.063	.0087	.019	.040	-1.4		-2.04	-.097	.0190	.019	.080	-1.2		8.16	.266	.0500	-.033	-.084	-1.7
	.44	-.015	.0079	.016	.035	-1.4		-1.01	-.055	.0166	.012	.062	-1.3		10.21	.331	.0702	-.040	-.109	-1.8
	1.05	.011	.0080	.015	.034	-1.4		-.52	-.033	.0156	.009	.051	-1.3		12.24	.392	.0942	-.047	-.128	-1.8
	2.12	.063	.0096	.011	.027	-1.4		.52	.013	.0151	.002	.031	-1.4		14.28	.453	.1224	-.053	-.150	-1.9
	4.19	.167	.0167	.002	.017	-1.4		.99	.031	.0156	.001	.022	-1.4		16.34	.510	.1556	-.056	-.171	-2.0
								2.04	.074	.0177	-.007	.003	-1.4		17.36	.539	.1741	-.057	-.182	-2.0

NACA

TABLE III.- CONTINUED



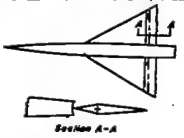
(e) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.21	-0.252	0.0224	0.034	0.040	-3.4	1.20	-4.10	-0.240	0.0313	0.052	0.199	-2.9	1.50	8.19	0.317	0.0554	-0.038	0.051	-3.6
	-2.12	-.160	.0140	.030	.034	-3.4		-2.04	-.137	.0205	.035	.160	-3.0		10.24	.398	.0802	-.049	-.078	-3.7
	-1.08	-.116	.0114	.029	.030	-3.4		-1.01	-.088	.0173	.028	.145	-3.0		12.30	.477	.1103	-.060	-.108	-3.8
	-.54	-.095	.0105	.028	.029	-3.4		-.50	-.062	.0163	.024	.134	-3.1		14.35	.553	.1454	-.069	-.136	-3.9
	.46	-.052	.0098	.027	.025	-3.4		.46	-.013	.0155	.017	.111	-3.1		16.40	.625	.1858	-.077	-.161	-3.9
	.93	-.029	.0092	.026	.024	-3.4		1.04	.014	.0157	.013	.099	-3.2		17.43	.658	.2074	-.080	-.169	-4.0
	2.05	.017	.0100	.024	.021	-3.4		2.05	.062	.0169	.005	.073	-3.2							
	4.17	.109	.0135	.020	.013	-3.4		4.10	.160	.0239	-.010	.039	-3.3	1.70	-4.08	-.177	.0286	.033	.143	-3.0
	6.22	.202	.0226	.015	.009	-3.4		6.16	.263	.0376	-.026	.003	-3.4		-2.03	-.099	.0197	.022	.112	-3.1
	8.32	.305	.0435	.018	.001	-3.5		8.21	.371	.0604	-.042	-.021	-3.5		-1.01	-.059	.0170	.016	.094	-3.2
	10.42	.410	.0714	.010	-.006	-3.5		10.27	.475	.0896	-.057	-.045	-3.6		-.48	-.039	.0168	.013	.084	-3.2
	12.53	.509	.1065	.011	-.021	-3.5		12.34	.582	.1297	-.073	-.072	-3.7		.51	0	.0158	.007	.066	-3.2
	14.64	.617	.1511	.010	-.024	-3.5									1.03	.021	.0157	.004	.057	-3.3
	16.76	.725	.2049	.009	-.032	-3.5	1.30	-4.09	-.219	.0326	.045	.185	-2.9		2.04	.059	.0174	-.002	.040	-3.3
								-2.04	-.183	.0224	.030	.147	-3.0		4.08	.137	.0237	-.013	.005	-3.4
0.80	-4.25	-.266	.0252	.041	.048	-3.3		-1.02	-.078	.0193	.023	.129	-3.1		6.13	.214	.0353	-.024	-.028	-3.5
	-2.14	-.166	.0149	.034	.040	-3.4		-.49	-.055	.0182	.020	.119	-3.1		8.18	.290	.0521	-.035	-.053	-3.6
	-1.10	-.120	.0098	.032	.039	-3.4		.46	-.008	.0174	.013	.095	-3.2		10.23	.360	.0742	-.043	-.079	-3.7
	-.56	-.097	.0108	.032	.039	-3.4		1.04	.017	.0178	.009	.086	-3.2		12.27	.431	.1018	-.052	-.105	-3.8
	.40	-.054	.0095	.030	.037	-3.4		2.04	.062	.0182	.003	.063	-3.3		14.33	.498	.1324	-.060	-.131	-3.9
	.94	-.029	.0094	.029	.035	-3.4		4.10	.154	.0268	-.011	.026	-3.4		16.38	.563	.1686	-.069	-.158	-3.9
	2.06	.020	.0092	.026	.031	-3.4		6.15	.251	.0392	-.026	-.008	-3.5		17.41	.595	.1886	-.067	-.161	-4.0
	4.20	.117	.0143	.020	.022	-3.4		8.21	.345	.0600	-.039	-.037	-3.6							
	6.26	.216	.0254	.015	.019	-3.4		10.26	.437	.0874	-.052	-.068	-3.7	1.90	-4.08	-.157	.0278	.027	.128	-3.1
	8.38	.323	.0484	.010	.007	-3.4		12.32	.525	.1211	-.064	-.100	-3.8		-2.04	-.087	.0194	.018	.098	-3.2
	10.49	.422	.0782	.010	-.008	-3.5		14.37	.610	.1608	-.076	-.129	-3.8		-1.00	-.052	.0171	.013	.081	-3.2
	12.61	.528	.1170	.005	-.027	-3.5		16.43	.693	.2064	-.085	-.154	-3.9		-.48	-.033	.0163	.010	.073	-3.2
	14.74	.638	.1646	-.002	-.027	-3.5		17.46	.732	.2309	-.090	-.165	-3.9		.51	.008	.0157	.005	.057	-3.3
	16.86	.745	.2210	-.008	-.038	-3.5									1.03	.020	.0159	.003	.049	-3.3
	17.91	.786	.2490	-.008	-.049	-3.6	1.50	-4.09	-.195	.0899	.038	.159	-3.0		2.03	.055	.0171	-.002	.033	-3.4
								-2.04	-.110	.0204	.025	.124	-3.1		4.07	.123	.0227	-.012	.002	-3.4
0.90	-4.26	-.279	.0271	.047	.070	-3.3		-1.02	-.067	.0175	.019	.106	-3.1		6.11	.192	.0331	-.021	-.024	-3.5
	-2.13	-.173	.0156	.040	.070	-3.3		-.50	-.045	.0163	.016	.097	-3.2		8.16	.259	.0483	-.029	-.052	-3.6
	-1.09	-.126	.0125	.038	.076	-3.3		.47	-.002	.0157	.009	.076	-3.2		10.20	.324	.0682	-.036	-.074	-3.7
	-.57	-.103	.0114	.037	.079	-3.3		1.04	.021	.0161	.006	.067	-3.2		12.24	.386	.0940	-.043	-.098	-3.8
	.40	-.057	.0098	.035	.081	-3.3		2.04	.062	.0175	-.001	.047	-3.3		14.29	.447	.1201	-.048	-.120	-3.8
	.93	-.033	.0095	.034	.083	-3.3		4.09	.147	.0244	-.014	.010	-3.4		16.34	.505	.1530	-.052	-.140	-3.9
	2.01	.021	.0099	.029	.069	-3.3		6.14	.233	.0367	-.027	-.020	-3.5		17.37	.535	.1714	-.053	-.150	-3.9
	4.22	.126	.0153	.021	.044	-3.3														
	6.28	.228	.0283	.015	.036	-3.4														
	8.40	.333	.0516	.012	.025	-3.4														
	10.53	.440	.0845	.007	.031	-3.4														

(f) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.26	-0.316	0.0316	0.061	0.053	-7.3	0.90	6.31	0.168	0.0265	0.045	0.106	-7.3	1.50	2.10	0.043	0.0196	0.014	0.140	-7.1
	-2.16	-.226	.0202	.058	.048	-7.5		8.43	.273	.0478	.042	.137	-7.2		4.10	.128	.0251	.002	.101	-7.2
	-1.12	-.184	.0162	.057	.045	-7.5		10.52	.385	.0788	.034	.155	-7.2		6.15	.214	.0363	-.013	.066	-7.3
	-.61	-.165	.0146	.057	.045	-7.5		12.64	.497	.1184	.023	.148	-7.2		8.21	.298	.0539	-.024	.035	-7.4
	.34	-.129	.0122	.057	.045	-7.5									10.26	.381	.0779	-.036	.003	-7.5
	.86	-.108	.0114	.056	.041	-7.5	1.20	-4.09	-.277	.0393	.077	.298	-6.7		12.33	.468	.1086	-.046	-.026	-7.6
	1.93	-.054	.0106	.053	.038	-7.5		-2.03	-.176	.0267	.060	.276	-6.7		14.37	.596	.1811	-.056	-.058	-7.7
	4.10	.037	.0113	.049	.032	-7.5		-1.00	-.128	.0226	.053	.268	-6.8		16.43	.610	.1802	-.064	-.076	-7.8
	6.22	.132	.0176	.045	.026	-7.5		-.49	-.104	.0218	.049	.261	-6.8		17.46	.646	.2025	-.067	-.083	-7.9
	8.33	.236	.0342	.041	.019	-7.5		.40	-.055	.0203	.042	.239	-6.8							
	10.45	.343	.0620	.039	.009	-7.5		.97	-.028	.0192	.038	.227	-6.9	1.70	-4.08	-.194	.0334	.044	.218	-6.9
	12.49	.445	.0939	.038	-.002	-7.6		2.09	.087	.0184	.029	.190	-7.0		-2.03	-.116	.0238	.033	.188	-6.9
	14.68	.552	.1364	.036	0	-7.6		4.11	.128	.0245	.012	.146	-7.1		-1.01	-.078	.0200	.027	.173	-7.0
	16.70	.661	.1858	.036	-.003	-7.6		6.17	.229	.0366	-.003	.115	-7.2		-.50	-.059	.0190	.020	.163	-7.0
	17.77	.727	.2174	.032	-.002	-7.6		8.25	.336	.0574	-.020	.086	-7.3		.46	-.019	.0179	.019	.147	-7.1
								10.29	.441	.0865	-.035	.066	-7.4		1.04	.003	.0178	.016	.138	-7.1
0.80	-4.28	-.324	.0348	.068	.076	-7.4		12.35	.550	.1233	-.052	.059	-7.4		2.09	.043	.0188	.010	.121	-7.2
	-2.18	-.230	.0223	.064	.067	-7.4		14.43	.644	.1577	-.056	.067	-7.4		4.10	.120	.0239	-.002	.084	-7.3
	-1.13	-.187	.0180	.063	.066	-7.4									6.14	.197	.0343	-.013	.052	-7.4
	-.60	-.167	.0163	.063	.064	-7.4	1.30	-4.09	-.243	.0396	.063	.284	-6.7		8.19	.273	.0502	-.023	.021	-7.5
	.35	-.127	.0148	.063	.068	-7.4		-2.03	-.152	.0279	.049	.255	-6.8		10.24	.345	.0716	-.032	-.005	-7.6
	.86	-.103	.0132	.062	.068	-7.4		-1.01	-.107	.0240	.042	.245	-6.8		12.29	.416	.0976	-.042	-.033	-7.7
	1.94	-.053	.0120	.058	.061	-7.4		-.49	-.084	.0227	.039	.235	-6.8		14.34	.484	.1281	-.049	-.058	-7.7
	4.15	.048	.0133	.052	.049	-7.4		.45	-.038	.0210	.032	.212	-6.9		16.39	.548	.1632	-.054	-.079	-7.8
	6.27	.146	.0213	.046	.041	-7.5		.98	-.014	.0207	.029	.199	-6.9		17.42	.581	.1829	-.056	-.088	-7.8
	8.39	.256	.0404	.042	.034	-7.5		2.09	.036	.0213	.021	.169	-7.0							
	10.52	.358	.0679	.040	.017	-7.5		4.11	.129	.0268	.006	.129	-7.2	1.90	-4.08	-.173	.0317	.036	.191	-7.0
	12.59	.469	.1051	.033	.024	-7.5		6.16	.224	.0389	-.008	.093	-7.3		-2.03	-.103	.0224	.027	.162	-7.0
	14.75	.573	.1499	.027	.027	-7.5		8.22	.319	.0577	-.022	.064	-7.4		-1.01	-.068	.0193	.022	.147	-7.1
	16.83	.676	.2027	.024	.022	-7.5		10.28	.413	.0843	-.036	.051	-7.5		-.49	-.050	.0186	.020	.135	-7.1
	17.87	.715	.2283	.024	.014	-7.5		12.33	.504	.1169	-.049	-.002	-7.6		.45	-.015	.0177	.015	.124	-7.2
								14.39	.589	.1554	-.060	-.031	-7.7		1.02	.003	.0176	.013	.116	-7.2
0.90	-4.89	-.387	.0374	.073	.136	-7.2		16.45	.670	.1993	-.069	-.055	-7.7		2.06	.041	.0183	.007	.101	-7.2
	-2.17	-.225	.0236	.066	.126	-7.2		17.48	.709	.2236	-.073	-.059	-7.7		4.08	.109	.0230	-.002	.070	-7.3
	-1.12	-.180	.0188	.064	.118	-7.3									6.12	.178	.0324	-.012	.039	-7.4
	-.60	-.159	.0173	.064	.122	-7.3	1.50	-4.09	-.218	.0360	.052	.245	-6.8		8.16	.246	.0467	-.020	.010	-7.5
	.36	-.117	.0154	.063	.140	-7.2		-2.04	-.130	.0249	.039	.214	-6.9		10.21	.311	.0657	-.027	-.009	-7.6
	.89	-.092	.0145	.062	.143	-7.2		-1.01	-.088	.0214	.033	.200	-6.9		12.26	.372	.0885	-.034	-.037	-7.7
	1.96	-.040	.0133	.057	.128	-7.2		-.50	-.067	.0198	.030	.188	-7.0		14.31	.433	.1158	-.040	-.057	-7.7
	4.18	.066	.0158	.050	.105	-7.3		.45	-.025	.0189	.024	.168	-7.0		16.35	.493	.1479	-.043	-.076	-7.8
								.99	-.001	.0185	.020	.160	-7.0		17.31	.522	.1656	-.044	-.087	-7.8

TABLE III.- CONCLUDED



(g) Nominal δ, -12°

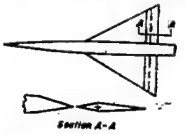
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.28	-0.356	0.0422	0.078	0.058	-11.6	0.90	6.28	0.122	0.0288	0.066	0.102	-11.4	1.50	4.16	0.097	0.0279	0.018	0.159	-11.2
	-2.19	-.280	.0301	.080	.042	-11.6		8.40	.221	.0476	.064	.122	-11.4		6.16	.183	.0372	.004	.123	-11.3
	-1.16	-.244	.0250	.081	.031	-11.6		10.53	.333	.0776	.058	.166	-11.3		8.21	.287	.0530	-.008	.089	-11.4
	-.64	-.229	.0232	.083	.029	-11.6									10.27	.350	.0751	-.020	.059	-11.5
	.89	-.196	.0196	.083	.025	-11.6	1.20	-4.08	-.310	.0512	.097	.358	-10.6		12.31	.432	.1026	-.031	.023	-11.6
	.81	-.175	.0183	.084	.023	-11.6		-2.03	-.216	.0371	.084	.346	-10.6		14.37	.509	.1353	-.041	-.003	-11.7
	1.86	-.128	.0156	.081	.021	-11.6		-1.00	-.175	.0324	.079	.326	-10.7		16.42	.582	.1730	-.049	-.024	-11.7
	3.98	-.037	.0144	.078	.014	-11.6		-.48	-.150	.0302	.075	.320	-10.7		17.45	.618	.1941	-.052	-.031	-11.8
	6.15	.053	.0159	.073	.011	-11.6		.45	-.095	.0276	.069	.309	-10.7							
	8.27	.159	.0280	.070	.007	-11.6		.96	-.076	.0265	.065	.305	-10.8	1.70	-4.07	-.212	.0400	.056	.270	-10.8
	10.37	.256	.0489	.068	0	-11.7		2.01	-.024	.0252	.055	.295	-10.9		-2.02	-.138	.0291	.046	.239	-10.9
	12.49	.365	.0803	.067	-.002	-11.7		4.17	.079	.0280	.039	.298	-11.0		-1.00	-.099	.0253	.040	.226	-10.9
	14.60	.472	.1216	.066	-.001	-11.7		6.23	.183	.0362	.023	.276	-11.1		-.49	-.080	.0240	.037	.220	-11.0
	16.72	.580	.1687	.066	-.003	-11.7		8.24	.287	.0566	.006	.249	-11.2		.45	-.044	.0226	.033	.204	-11.0
	17.78	.639	.1962	.062	-.007	-11.7		10.29	.395	.0838	-.010	.218	-11.3		.96	-.023	.0222	.030	.196	-11.0
								12.36	.504	.1183	-.025	.188	-11.4		2.07	.017	.0223	.024	.178	-11.1
0.80	-4.40	-.361	.0473	.086	.090	-11.5									4.15	.095	.0263	.013	.139	-11.2
	-2.30	-.275	.0326	.084	.072	-11.5	1.30	-4.08	-.272	.0454	.080	.353	-10.6		6.14	.173	.0358	.001	.103	-11.3
	-1.26	-.238	.0277	.085	.064	-11.5		-2.02	-.186	.0364	.069	.324	-10.7		8.19	.248	.0495	-.009	.068	-11.4
	-.74	-.221	.0258	.086	.061	-11.5		-1.00	-.143	.0323	.064	.312	-10.7		10.24	.322	.0694	-.019	.043	-11.5
	.40	-.190	.0221	.089	.055	-11.5		-.49	-.120	.0303	.059	.304	-10.7		12.29	.395	.0943	-.028	.014	-11.6
	.93	-.170	.0208	.089	.054	-11.5		.44	-.075	.0281	.052	.294	-10.8		14.33	.462	.1233	-.036	-.013	-11.7
	1.97	-.123	.0176	.085	.038	-11.6		.96	-.051	.0271	.049	.287	-10.8		16.39	.529	.1577	-.042	-.031	-11.8
	4.11	-.022	.0159	.079	.023	-11.6		2.02	-.003	.0265	.042	.249	-10.9		17.42	.562	.1768	-.044	-.040	-11.8
	6.21	.073	.0208	.075	.022	-11.6		4.16	.091	.0300	.028	.198	-11.1							
	8.34	.182	.0372	.073	.020	-11.6		6.16	.185	.0395	.013	.162	-11.2	1.90	-4.07	-.187	.0370	.046	.238	-10.9
	10.45	.281	.0616	.070	.027	-11.6		8.22	.280	.0572	0	.129	-11.3		-2.03	-.119	.0336	.037	.210	-11.0
	12.58	.393	.0970	.063	.059	-11.5		10.28	.374	.0815	-.014	.093	-11.4		-1.01	-.085	.0238	.033	.193	-11.0
	14.69	.499	.1380	.060	.070	-11.5		12.34	.468	.1126	-.028	.054	-11.5		-.50	-.069	.0229	.031	.185	-11.1
	16.82	.596	.1858	.060	.089	-11.5		14.39	.554	.1493	-.040	.020	-11.6		.45	-.034	.0215	.026	.171	-11.1
	17.91	.639	.2122	.058	.087	-11.5		16.45	.638	.1920	-.050	-.007	-11.7		.96	-.016	.0212	.024	.165	-11.1
								17.49	.678	.2151	-.054	-.014	-11.7		2.06	.020	.0212	.019	.151	-11.2
0.90	-4.30	-.360	.0512	.092	.201	-11.2									4.13	.089	.0250	.010	.117	-11.3
	-2.18	-.263	.0344	.086	.167	-11.3	1.50	-4.08	-.238	.0438	.066	.298	-10.7		6.12	.157	.0330	0	.084	-11.4
	-1.15	-.224	.0296	.085	.155	-11.3		-2.03	-.157	.0320	.035	.268	-10.8		8.17	.225	.0554	-.008	.054	-11.5
	-.62	-.206	.0276	.086	.148	-11.3		-1.00	-.118	.0282	.050	.259	-10.8		10.21	.291	.0636	-.016	.033	-11.5
	.33	-.170	.0246	.086	.136	-11.3		-.49	-.095	.0263	.043	.258	-10.8		12.26	.355	.0856	-.023	.008	-11.6
	.85	-.148	.0233	.087	.141	-11.3		.44	-.054	.0243	.040	.235	-10.9		14.31	.415	.1118	-.029	-.014	-11.7
	1.91	-.094	.0202	.081	.124	-11.4		.97	-.033	.0239	.037	.227	-10.9		16.36	.476	.1436	-.032	-.036	-11.8
	4.12	.011	.0195	.072	.100	-11.4		2.07	.010	.0239	.031	.202	-11.0		17.38	.505	.1604	-.033	-.045	-11.8

(h) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.27	-0.353	0.0551	0.082	0.117	-15.4	0.90	8.39	0.195	0.0526	0.079	0.092	-15.4	1.50	4.16	0.066	0.0340	0.036	0.211	-15.0
	-2.19	-.281	.0423	.084	.094	-15.5		10.51	.297	.0804	.077	.117	-15.4		6.21	.153	.0418	.023	.171	-15.1
	-1.17	-.254	.0378	.088	.083	-15.5		12.63	.395	.1155	.075	.151	-15.3		8.21	.237	.0577	.010	.126	-15.3
	-.64	-.244	.0362	.092	.074	-15.5									10.26	.322	.0767	-.002	.094	-15.4
	.28	-.229	.0329	.100	.062	-15.6	1.20	-4.08	-.329	.0654	.111	.391	-14.5		12.32	.408	.1021	-.013	.059	-15.5
	.79	-.212	.0310	.101	.030	-15.6		-2.02	-.238	.0509	.099	.394	-14.5		14.37	.480	.1331	-.023	.036	-15.5
	1.84	-.171	.0276	.100	.021	-15.6		-1.00	-.207	.0433	.099	.367	-14.6		16.42	.554	.1691	-.032	.003	-15.6
	3.94	-.075	.0232	.093	.013	-15.6		-.48	-.186	.0430	.096	.359	-14.6		17.46	.591	.1896	-.035	-.009	-15.7
	6.14	.007	.0228	.094	-.010	-15.7		.45	-.141	.0357	.091	.349	-14.6							
	8.23	.095	.0306	.095	-.033	-15.7		.96	-.116	.0384	.087	.344	-14.6	1.70	-4.07	-.227	.0499	.066	.309	-14.7
	10.35	.195	.0496	.095	-.039	-15.7		1.98	-.071	.0357	.080	.312	-14.8		-2.02	-.159	.0387	.059	.282	-14.8
	12.45	.295	.0734	.094	-.047	-15.7		4.15	.032	.0353	.054	.260	-14.9		-1.00	-.122	.0346	.054	.266	-14.8
	14.56	.398	.1097	.095	-.049	-15.7		6.23	.138	.0433	.048	.221	-15.0		-.49	-.104	.0332	.051	.260	-14.8
	16.66	.514	.1521	.094	-.046	-15.7		8.28	.243	.0603	.033	.186	-15.1		.43	-.070	.0311	.047	.248	-14.9
	17.73	.558	.1781	.095	-.049	-15.7		10.30	.350	.0849	.017	.155	-15.2		.96	-.050	.0304	.045	.242	-14.9
								12.37	.449	.1160	.006	.131	-15.3		2.01	-.009	.0296	.039	.223	-15.0
0.80	-4.39	-.345	.0580	.087	.154	-15.3		14.43	.556	.1561	-.006	.101	-15.4		4.15	.070	.0318	.028	.189	-15.1
	-2.29	-.277	.0449	.090	.098	-15.4									6.19	.148	.0392	.016	.144	-15.2
	-1.26	-.252	.0409	.097	.090	-15.5	1.30	-4.08	-.291	.0631	.093	.396	-14.5		8.19	.223	.0522	.005	.103	-15.3
	-.73	-.241	.0390	.099	.075	-15.5		-2.03	-.210	.0489	.084	.369	-14.6		10.24	.298	.0707	-.005	.072	-15.4
	.39	-.220	.0358	.105	.065	-15.5		-.99	-.177	.0446	.083	.349	-14.6		12.29	.372	.0942	-.014	.045	-15.3
	.91	-.201	.0339	.106	.060	-15.5		-.48	-.153	.0422	.079	.341	-14.6		14.34	.439	.1218	-.021	.014	-15.6
	1.96	-.151	.0299	.101	.048	-15.5		.54	-.110	.0389	.073	.329	-14.7		16.39	.507	.1547	-.028	-.004	-15.7
	4.08	-.055	.0255	.094	.023	-15.6		1.06	-.087	.0379	.071	.324	-14.7		17.42	.540	.1730	-.030	-.015	-15.7
	6.18	.041	.0285	.092	.017	-15.6		2.09	-.044	.0363	.065	.299	-14.8							
	8.32	.140	.0417	.091	.005	-15.6		4.16	.052	.0371	.051	.250	-14.9	1.90	-4.06	-.200	.0452	.054	.274	-14.8
	10.43	.237	.0631	.089	-.003	-15.7		6.23	.149	.0451	.036	.210	-15.0		-2.03	-.137	.0354	.048	.243	-14.9
	12.55	.347	.0947	.088	-.004	-15.7		8.23	.242	.0607	.022	.167	-15.2		-1.02	-.105	.0318	.044	.228	-15.0
	14.68	.448	.1332	.081	-.002	-15.7		10.29	.339	.0841	.008	.128	-15.3		-.49	-.090	.0308	.043	.221	-15.0
	16.80	.547	.1777	.082	-.002	-15.7		12.34	.431	.1136	-.005	.090	-15.4		.44	-.058	.0295	.039	.207	-15.0
	17.84	.586	.2025	.084	.003	-15.7		14.40	.519	.1488	-.017	.059	-15.5		.96	-.039	.0279	.036	.201	-15.0
								16.45	.603	.1869	-.028	.034	-15.6		2.00	-.002	.0274	.032	.187	-15.1
0.90	-4.31	-.372	.0673	.106	.235	-15.1		17.49	.644	.2115	-.033	.019	-15.6		4.14	.068	.0298	.023	.152	-15.2
	-2.20	-.288	.0504	.103	.197	-15.2									6.18	.137	.0368	.013	.116	-15.3
	-1.15	-.253	.0447	.104	.188	-15.2	1.50	-4.07	-.254	.0546	.077	.347	-14.6		8.17	.203	.0484	.004	.089	-15.4
	-.64	-.236	.0423	.105	.170	-15.2		-2.02	-.179	.0422	.069	.311	-14.7		10.22	.271	.0647	-.004	.054	-15.5
	.47	-.202	.0381	.107	.168	-15.3		-1.00	-.146	.0387	.066	.301	-14.7		12.26	.336	.0854	-.011	.029	-15.6
	.96	-.184	.0365	.107	.156	-15.3		-.48	-.128	.0363	.062	.294	-14.7		14.30	.396	.1102	-.017	.002	-15.6
	1.85	-.131	.0327	.101	.135	-15.3		.44	-.082	.0336	.057	.281	-14.8		16.35	.456	.1396	-.020	-.018	-15.6
	4.04	-.027	.0298	.093	.111	-15.4		.96	-.054	.0331	.055	.276	-14.8		17.38	.489	.1567	-.021	-.028	-15.6
	6.26	.084	.0354	.085	.097	-15.4		2.01	-.022	.0323	.050	.257	-14.9							

NACA

TABLE IV.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 50-PERCENT BALANCE FLAP (MODIFIED WING PROFILE; SHARP NOSE FLAP). DATA FOR TWO FLAPS. $R = 4.4 \times 10^6$



(a) Nominal δ, 4°

M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.11	-0.104	0.0182	-0.026	-0.007	3.7
	-2.03	-.013	.0090	-.030	-.007	3.7
	-.99	.028	.0068	-.031	-.007	3.7
	-.47	.048	.0064	-.031	-.005	3.7
	.52	.090	.0065	-.032	-.005	3.7
	1.04	.110	.0076	-.033	-.002	3.7
	2.06	.147	.0142	-.033	.001	3.8
	4.16	.236	.0226	-.037	.005	3.8
	6.24	.330	.0380	-.040	-.002	3.7
	8.32	.431	.0630	-.044	-.018	3.7
	10.40	.530	.0963	-.044	-.037	3.7
	12.48	.622	.1407	-.040	-.047	3.6
	14.56	.717	.1966	-.041	-.044	3.6
	16.65	.830	.2147	-.041	-.042	3.6
	17.69	.877	.2458	-.041	-.044	3.6
0.80	-4.14	-.109	.0135	-.027	-.016	3.7
	-2.04	-.013	.0097	-.032	-.014	3.7
	-.99	.022	- - -	-.032	.006	3.8
	-.47	.044	.0107	-.033	.006	3.8
	.52	.089	.0121	-.036	-.002	3.7
	1.05	.117	.0126	-.038	-.010	3.7
	2.10	.154	.0153	-.038	.010	3.8
	4.18	.249	.0254	-.043	.030	3.8
	6.27	.349	.0431	-.047	-.004	3.7
	8.36	.453	.0698	-.052	-.035	3.7
	10.43	.536	.1011	-.048	-.062	3.6
	12.52	.631	.1408	-.049	-.071	3.5
	14.61	.733	.1906	-.053	-.062	3.6
	16.69	.827	.2469	-.056	-.060	3.6
	17.73	.875	.2789	-.059	-.064	3.6
0.90	-4.15	-.118	.0147	-.030	-.038	3.6
	-2.05	-.021	.0105	-.034	-.017	3.7
	-.99	.024	.0106	-.035	-.007	3.7
	-.47	.047	.0107	-.036	-.009	3.7
	.53	.094	.0126	-.039	-.023	3.7
	1.06	.125	.0140	-.043	-.038	3.6
	2.11	.166	.0170	-.044	-.025	3.7
	4.19	.256	.0264	-.047	-.001	3.8
0.90	6.28	0.361	0.0463	-0.054	-0.033	3.6
	8.37	.465	.0733	-.057	-.068	3.5
	10.46	.563	.1078	-.057	-.120	3.4
	12.55	.657	.1502	-.060	-.140	3.3
	14.64	.762	.2042	-.072	-.151	3.3
	16.76	.901	.2765	-.085	-.230	3.3
1.20	-4.05	-.168	.0270	.009	-.073	3.7
	-2.06	-.070	.0199	-.008	-.090	3.7
	-1.03	-.019	.0179	-.016	-.119	3.7
	-.51	.005	.0176	-.019	-.129	3.7
	.47	.053	.0183	-.027	-.147	3.7
	.98	.077	.0193	-.030	-.153	3.7
	2.01	.127	.0229	-.038	-.163	3.7
	4.04	.226	.0331	-.054	-.168	3.7
	6.07	.326	.0506	-.070	-.188	3.7
	8.10	.424	.0735	-.086	-.207	3.7
	10.13	.521	.1057	-.093	-.212	3.7
1.30	-4.05	-.168	.0296	-.011	-.040	3.7
	-2.00	-.070	.0224	-.004	-.062	3.7
	-1.03	-.024	.0203	-.012	-.093	3.7
	-.51	-.001	.0199	-.015	-.109	3.7
	.46	.043	.0203	-.021	-.122	3.7
	.98	.065	.0215	-.025	-.132	3.7
	2.01	.115	.0250	-.033	-.148	3.7
	4.04	.207	.0350	-.047	-.168	3.7
	6.07	.297	.0512	-.060	-.181	3.7
	8.10	.389	.0741	-.073	-.206	3.7
	10.13	.473	.1033	-.084	-.231	3.7
	12.16	.560	.1382	-.095	-.255	3.6
	14.19	.637	.1782	-.103	-.261	3.6
	16.22	.719	.2258	-.110	-.261	3.6
	17.24	.746	.2462	-.112	-.275	3.6
1.50	-4.05	-.149	.0264	.011	-.017	3.7
	-2.00	-.066	.0197	-.002	-.044	3.7
	-1.03	-.024	.0178	-.009	-.072	3.7
	-.51	-.003	.0176	-.012	-.083	3.7
	.46	.037	.0181	-.018	-.100	3.7
1.50	0.97	0.057	0.0191	-0.021	-0.109	3.7
	2.00	.101	.0221	-.026	-.124	3.7
	4.04	.188	.0382	-.041	-.146	3.7
	6.07	.268	.0473	-.053	-.168	3.7
	8.09	.348	.0681	-.064	-.183	3.7
	10.12	.425	.0938	-.076	-.206	3.7
	12.15	.502	.1256	-.084	-.230	3.7
	14.18	.575	.1621	-.092	-.252	3.6
	16.21	.646	.2042	-.100	-.263	3.6
	17.22	.678	.2260	-.102	-.297	3.6
1.70	-4.04	-.136	.0258	.011	-.010	3.7
	-2.00	-.061	.0187	-.001	- - -	3.7
	-1.02	-.022	.0165	-.006	-.038	3.7
	-.51	-.004	.0162	-.009	-.065	3.7
	.46	.033	.0166	-.011	-.081	3.7
	.97	.051	.0178	-.018	-.086	3.7
	2.00	.091	.0211	-.024	-.101	3.7
	4.04	.170	.0305	-.036	-.124	3.7
	6.06	.245	.0443	-.046	-.146	3.7
	8.09	.314	.0629	-.056	-.164	3.7
	10.11	.384	.0869	-.065	-.182	3.7
	12.14	.456	.1166	-.074	-.205	3.7
	14.17	.519	.1488	-.080	-.229	3.7
	16.19	.583	.1868	-.086	-.254	3.6
	17.21	.615	.2071	-.088	-.266	3.6
1.90	-4.04	-.124	.0249	.009	-.004	3.7
	-1.99	-.056	.0185	-.001	-.031	3.7
	-1.02	-.021	.0169	-.005	-.048	3.7
	-.51	-.004	.0166	-.008	-.054	3.7
	.46	.028	.0172	-.013	-.064	3.7
	.97	.043	.0181	-.016	-.069	3.7
	1.99	.082	.0207	-.021	-.078	3.7
	4.03	.153	.0292	-.030	-.103	3.7
	6.05	.219	.0414	-.040	-.124	3.7
	8.08	.284	.0583	-.048	-.143	3.7
	10.10	.347	.0796	-.055	-.162	3.7
	12.13	.406	.1046	-.062	-.181	3.7
	14.15	.465	.1342	-.069	-.202	3.7
	16.18	.524	.1685	-.071	-.229	3.7
	17.19	.553	.1877	-.073	-.241	3.7

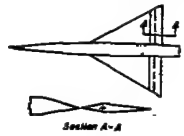
(b) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.10	-0.132	0.0146	-0.009	0.008	1.8
	-2.07	-.063	.0094	-.014	.002	1.8
	-1.05	-.020	.0083	-.015	.005	1.8
	-.51	0	.0083	-.016	.005	1.8
	.48	.040	.0086	-.018	.005	1.8
	1.00	.062	.0094	-.019	.005	1.8
	2.04	.103	.0111	-.019	.010	1.8
	4.13	.193	.0188	-.023	.010	1.8
	6.21	.290	.0318	-.028	.002	1.8
	8.28	.385	.0521	-.032	-.013	1.7
	10.37	.494	.0774	-.033	-.026	1.7
	12.45	.586	.1237	-.030	-.040	1.7
	14.53	.683	.1681	-.031	-.037	1.7
	16.63	.806	.2289	-.039	-.034	1.7
	17.67	.858	.2601	-.039	-.037	1.7
0.80	-4.13	-.158	.0158	-.008	-.004	1.7
	-2.08	-.063	.0099	-.014	.004	1.8
	-1.03	-.021	.0094	-.016	.012	1.8
	-.51	0	.0093	-.018	.010	1.8
	.49	.048	.0098	-.020	-.006	1.7
	1.01	.071	.0108	-.021	.010	1.7
	2.06	.113	.0180	-.028	.008	1.7
	4.15	.206	.0804	-.028	.010	1.8
	6.24	.309	.0364	-.034	- -	1.8
	8.33	.414	.0609	-.039	-.018	1.7
	10.41	.508	.0918	-.036	-.034	1.6
	12.50	.602	.1319	-.040	-.059	1.5
	14.58	.708	.1808	-.046	-.062	1.6
	16.73	.856	.2546	-.031	-.036	1.6
	17.78	.947	.2939	-.064	-.060	1.6
0.90	-4.15	-.166	.0183	-.009	-.032	1.6
	-2.09	-.067	.0109	-.015	-.005	1.7
	-1.04	-.021	.0099	-.019	-.001	1.7
	-.51	.001	.0095	-.020	-.005	1.7
	.49	.052	.0103	-.024	-.032	1.6
	1.02	.081	.0114	-.027	-.050	1.6
	2.08	.128	.0140	-.030	-.038	1.6
0.90	4.17	0.227	0.0231	-0.035	0.001	1.8
	6.26	.338	.0408	-.043	-.023	1.7
	8.36	.441	.0687	-.051	-.036	1.6
	10.45	.544	.1034	-.055	-.102	1.4
1.20	-4.05	-.192	.0274	.022	-.005	1.7
	-2.01	-.090	.0190	.004	-.016	1.7
	-.98	-.040	.0169	-.003	-.039	1.7
	-.52	-.018	.0163	-.007	-.055	1.7
	.46	.027	.0164	-.015	-.068	1.7
	.97	.052	.0173	-.019	-.078	1.7
	2.00	.102	.0202	-.026	-.097	1.7
	4.04	.203	.0291	-.043	-.104	1.7
	6.07	.301	.0450	-.059	-.124	1.7
	8.10	.402	.0687	-.073	-.134	1.7
1.30	-4.05	-.175	.0292	.021	.085	1.8
	-2.01	-.084	.0216	.005	- - -	1.8
	-.98	-.040	.0198	-.001	-.027	1.7
	-.52	-.018	.0186	-.005	-.037	1.7
	.46	.023	.0188	-.012	-.054	1.7
	.97	.047	.0195	-.016	-.063	1.7
	2.00	.094	.0225	-.022	-.088	1.7
	4.04	.186	.0311	-.038	-.117	1.7
	6.07	.280	.0457	-.052	-.124	1.7
	8.10	.369	.0682	-.066	-.131	1.7
	10.12	.458	.0947	-.080	-.179	1.7
	12.15	.542	.1294	-.090	-.205	1.7
	14.18	.624	.1699	-.100	-.224	1.7
	16.22	.701	.2151	-.106	-.108	1.7
	17.23	.739	.2388	-.109	-.113	1.7
1.50	-4.05	-.164	.0280	.020	.037	1.8
	-2.00	-.076	.0220	.006	.010	1.8
	-.98	-.035	.0177	0	-.013	1.7
	-.51	-.014	.0171	-.003	-.028	1.7
	.46	.025	.0174	-.010	-.045	1.7
	.97	.047	.0180	-.014	-.054	1.7
	2.00	.091	.0207	-.021	-.076	1.7
	4.04	.177	.0296	-.034	-.095	1.7
1.50	6.07	0.269	0.0442	-0.047	-0.118	1.7
	8.10	.344	.0646	-.059	-.139	1.7
	10.12	.425	.0904	-.071	-.168	1.7
	12.15	.499	.1207	-.079	-.191	1.7
	14.18	.575	.1571	-.088	-.218	1.7
	16.21	.647	.1989	-.095	-.239	1.7
	17.23	.682	.2217	-.098	-.252	1.6
1.70	-4.04	-.149	.0263	.018	.028	1.8
	-2.00	-.071	.0188	.006	- -	1.8
	-.98	-.033	.0163	.001	-.014	1.7
	-.51	-.014	.0155	-.002	-.020	1.7
	.46	.021	.0156	-.009	-.028	1.7
	.97	.040	.0164	-.012	-.043	1.7
	1.99	.080	.0194	-.018	-.056	1.7
	4.04	.158	.0278	-.030	-.081	1.7
	6.06	.234	.0410	-.041	-.104	1.7
	8.08	.305	.0590	-.051	-.124	1.7
	10.11	.375	.0817	-.060	-.137	1.7
	12.13	.443	.1098	-.069	-.167	1.7
	14.16	.509	.1412	-.076	-.190	1.7
	16.19	.571	.1773	-.080	-.218	1.7
	17.20	.604	.1961	-.083	-.226	1.7
1.90	-4.04	-.138	.0262	.016	.028	1.8
	-2.00	-.067	.0190	.006	- -	1.8
	-.98	-.034	.0170	.001	-.012	1.7
	-.51	-.014	.0164	-.002	-.023	1.7
	.46	.017	.0167	-.008	-.039	1.7
	.97	.036	.0174	-.011	-.035	1.7
	1.99	.073	.0194	-.016	-.046	1.7
	4.03	.142	.0269	-.026	-.071	1.7
	6.05	.210	.0387	-.036	-.092	1.7
	8.08	.276	.0550	-.044	-.112	1.7
	10.10	.341	.0759	-.052	-.130	1.7
	12.12	.399	.0998	-.059	-.150	1.7
	14.15	.461	.1295	-.066	-.170	1.7
	16.18	.525	.1644	-.068	-.193	1.7
	17.19	.555	.1847	-.069	-.205	1.7

NACA

CONFIDENTIAL

TABLE IV.- CONTINUED



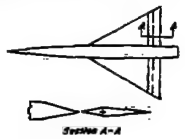
(c) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.13	-0.193	0.0165	0.009	0.013	0	0.90	6.24	0.298	0.0353	-0.022	0.002	0	1.50	2.00	0.077	0.0192	-0.012	-0.036	0
	-2.05	-.100	.0095	.004	.006	0		8.34	.412	.0616	-.030	-.031	-.1		4.04	.161	.0271	-.026	.050	0
	-1.01	-.058	- - -	.003	.008	0		10.43	.520	.0968	-.039	-.077	-.2		6.06	.244	.0404	-.039	-.081	0
	-.48	-.036	.0079	.002	.008	0		12.54	.656	.1462	-.058	-.111	-.3		8.09	.324	.0590	-.051	-.105	0
	.50	.004	.0080	.001	.005	0									10.12	.403	.0836	-.063	-.129	0
	.97	.023	.0084	0	.005	0	1.20	-4.05	-.203	.0285	.033	.061	0		12.14	.481	.1136	-.079	-.155	0
	2.02	.067	.0092	-.002	.005	0		-2.00	-.099	.0194	.017	.049	0		14.17	.577	.1488	-.084	-.182	0
	4.10	.159	.0154	-.006	.003	0		-.98	-.051	.0170	.009	.030	0		16.22	.661	.1995	-.091	-.217	0
	6.19	.259	.0278	-.013	-.002	0		-.47	-.025	.0164	.006	.018	0		17.23	.695	.2218	-.095	-.228	0
	8.27	.361	.0502	-.017	-.016	0		.46	.019	.0165	-.001	.003	0							
	10.36	.467	.0801	-.018	-.034	0		.98	.046	.0172	-.005	-.008	0	1.70	-4.04	-.166	.0290	.026	.067	0
	12.44	.562	.1158	-.016	-.053	-.1		2.01	.094	.0198	-.012	-.030	0		-2.00	-.085	.0203	.014	.039	0
	14.51	.655	.1586	-.016	-.056	-.1		4.05	.195	.0284	-.029	-.062	0		-.98	-.044	.0174	.008	.021	0
	16.63	.795	.2223	-.025	-.056	-.1		6.08	.300	.0437	-.047	-.069	0		-.46	-.023	.0168	.004	.015	0
	17.67	.844	.2515	-.025	-.059	-.1		8.11	.404	.0673	-.054	-.103	0		.46	.012	.0166	-.002	-.001	0
								10.14	.508	.0983	-.080	-.137	0		.97	.034	.0169	-.005	-.009	0
0.80	-4.16	-.200	.0176	.012	.008	0		12.18	.628	.1389	-.097	-.178	0		2.00	.076	.0196	-.012	-.020	0
	-2.06	-.103	.0109	.006	.010	0									4.04	.156	.0273	-.024	-.051	0
	-1.01	-.059	.0089	.004	.015	0	1.30	-4.04	-.185	.0313	.032	.080	0		6.07	.238	.0405	-.037	-.079	0
	-.48	-.035	.0088	.003	.012	0		-2.00	-.092	.0225	.016	.058	0		8.09	.314	.0580	-.045	-.102	0
	.46	.007	.0091	.001	- -	- -		-.98	-.046	.0197	.009	.031	0		10.12	.389	.0821	-.056	-.127	0
	.98	.031	.0092	-.001	-.004	0		-.46	-.022	.0188	.006	.023	0		12.15	.463	.1108	-.066	-.150	0
	2.03	.076	.0102	-.003	-.004	0		.46	.021	.0191	-.001	.005	0		14.18	.534	.1443	-.073	-.176	0
	4.13	.173	.0173	-.010	.008	0		.98	.045	.0198	-.004	-.005	0		16.21	.605	.1835	-.080	-.199	0
	6.20	.279	.0314	-.017	0	0		2.01	.090	.0224	-.011	-.031	0		17.22	.643	.2062	-.083	-.213	0
	8.31	.387	.0565	-.022	-.017	0		4.05	.185	.0306	-.027	-.054	0							
	10.43	.485	.0881	-.022	-.035	-.1		6.08	.280	.0456	-.042	-.081	0	1.90	-4.04	-.144	.0263	.021	.052	0
	12.48	.579	.1258	-.024	-.070	-.2		8.10	.373	.0674	-.056	-.110	0		-2.00	-.076	.0186	.011	.026	0
	14.57	.680	.1733	-.030	-.070	-.2		10.13	.465	.0939	-.071	-.140	0		-.98	-.040	.0166	.006	.012	0
	16.70	.842	.2468	-.051	-.066	-.1		12.16	.555	.1306	-.081	-.166	0		-.46	-.022	.0162	.003	.006	0
	17.74	.884	.2755	-.052	-.068	-.2		14.19	.641	.1715	-.093	-.193	0		.46	.021	.0161	-.002	.001	0
								16.23	.733	.2212	-.103	-.220	0		.97	.029	.0163	-.005	-.003	0
0.90	-4.17	-.212	.0201	.017	.012	0		17.24	.772	.2461	-.108	-.233	0		1.99	.069	.0179	-.011	-.019	0
	-2.06	-.105	.0110	.007	.022	0									4.03	.135	.0250	-.020	-.044	0
	-1.01	-.059	.0096	.003	.028	0	1.50	-4.04	-.169	.0273	.027	.084	0		6.05	.202	.0361	-.030	-.069	0
	-.49	-.034	.0100	.004	.022	0		-2.00	-.087	.0191	.013	.060	0		8.08	.268	.0518	-.038	-.088	0
	.47	.013	.0092	0	.004	0		-.98	-.047	.0169	.007	.035	0		10.10	.332	.0720	-.046	-.107	0
	.98	.037	.0097	-.002	-.006	0		-.47	-.027	.0163	.004	.024	0		12.12	.398	.0977	-.055	-.129	0
	2.04	.085	.0113	-.005	-.001	0		.46	.014	.0163	-.002	.008	0		14.15	.460	.1267	-.062	-.149	0
	4.13	.186	.0188	-.012	.017	0		.97	.035	.0170	-.005	-.011	0		16.17	.523	.1605	-.067	-.171	0
															17.19	.554	.1797	-.069	-.182	0

(d) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.15	-0.224	0.0197	0.025	- -	-2.2	0.90	8.31	0.332	0.0311	-0.004	-0.017	-2.2	1.50	0.97	0.020	0.0167	0.001	0.044	-2.1
	-2.07	-.133	.0117	.020	-0.008	-2.2		10.40	.462	.0839	-.010	-.029	-2.2		1.99	.060	.0186	-.004	.017	-2.1
	-1.03	-.091	.0094	.019	.002	-2.1		12.49	.566	.1238	-.016	-.053	-2.3		4.04	.146	.0257	-.018	-.007	-2.2
	-.51	-.072	.0090	.019	.005	-2.1		14.59	.681	.1755	-.031	-.066	-2.4		6.07	.238	.0384	-.031	-.032	-2.2
	.48	-.029	.0085	.018	.002	-2.1		16.71	.838	.2491	-.062	-.066	-2.4		8.10	.311	.0563	-.043	-.058	-2.2
	1.00	-.008	.0082	.017	.003	-2.1									10.12	.391	.0808	-.055	-.077	-2.2
	2.04	.003	.0085	.015	.003	-2.1	1.20	-4.05	-.228	.0311	.046	.132	-2.1		12.13	.465	.1015	-.070	-.111	-2.2
	4.07	.118	.0119	.011	- -	-2.2		-2.02	-.127	.0208	.029	.124	-2.1		14.18	.543	.1444	-.079	-.138	-2.2
	6.17	.216	.0224	.005	-.002	-2.2		-.99	-.076	.0178	.021	.107	-2.1		16.21	.616	.1843	-.082	-.160	-2.2
	8.27	.321	.0441	.001	-.013	-2.2		-.47	-.052	.0168	.017	.097	-2.1		17.22	.650	.2057	-.086	-.169	-2.2
	10.34	.425	.0728	-.002	-.026	-2.2		.51	-.006	.0164	.010	.082	-2.1							
	12.42	.523	.1072	-.001	-.042	-2.3		1.02	.010	.0169	.006	.072	-2.1	1.70	-4.02	-.130	.0247	.034	-.102	-2.1
	14.50	.629	.1506	-.003	-.059	-2.2		2.00	.064	.0189	-.001	.048	-2.1		-2.00	-.093	.0194	.019	.079	-2.1
	16.60	.754	.2096	-.010	-.059	-2.2		4.04	.138	.0237	-.013	.035	-2.1		-.98	-.054	.0159	.013	.065	-2.1
								6.05	.227	.0352	-.038	.006	-2.1		-.47	-.033	.0157	.010	.028	-2.1
0.80	-4.16	-.235	.0218	.029	-.002	-2.2		8.11	.368	.0517	-.050	-.172	-2.2		.30	.002	.0143	.005	.048	-2.1
	-2.05	-.141	.0128	.024	.002	-2.1		10.14	.469	.0909	-.065	-.203	-2.2		.97	.021	.0153	0	.036	-2.1
	-1.04	-.098	.0105	.022	.010	-2.1		12.17	.583	.1265	-.082	-.242	-2.2		1.99	.057	.0173	-.005	.021	-2.1
	-.58	-.073	.0100	.022	.010	-2.1									4.04	.135	.0243	-.016	-.007	-2.2
	.48	-.028	.0096	.019	-.006	-2.2	1.30	-4.05	-.213	.0300	.040	.137	-2.1		6.06	- - -	.0361	-.028	-.032	-2.2
	1.01	-.004	.0092	.018	-.006	-2.2		-2.02	-.120	.0227	.025	.121	-2.1		8.09	.286	.0531	-.038	-.059	-2.2
	2.05	.034	.0095	.016	.004	-2.1		-.99	-.078	.0194	.018	.097	-2.1		10.11	.359	.0745	-.048	-.082	-2.2
	4.10	.126	.0137	.011	.010	-2.1		-.47	-.047	.0176	.014	- -	-2.2		12.14	.430	.1018	-.058	-.105	-2.2
	6.20	.233	.0263	.004	.008	-2.1		.50	-.005	.0183	.007	.072	-2.1		14.16	.499	.1337	-.067	-.130	-2.2
	8.29	.340	.0493	-.003	-.004	-2.2		1.01	.016	.0188	.004	.062	-2.1		16.20	.566	.1704	-.071	-.151	-2.2
	10.38	.441	.0793	-.004	-.035	-2.3		1.99	.061	.0210	-.002	.033	-2.1		17.21	.598	.1901	-.073	-.161	-2.2
	12.47	.543	.1172	-.008	-.042	-2.3		4.04	.153	.0275	-.017	.011	-2.1							
	14.56	.648	.1628	-.014	-.037	-2.3		6.07	.243	.0408	-.031	-.012	-2.2	1.90	-4.04	-.155	.0282	.026	.089	-2.1
	16.66	.791	.2292	-.030	-.035	-2.3		8.10	.338	.0611	- - -	-.046	-2.2		-2.00	-.084	.0200	.016	.063	-2.1
	17.73	.847	.2627	-.033	-.042	-2.3		10.13	.430	.0883	-.060	-.078	-2.2		-.98	-.048	.0177	.011	.053	-2.1
								12.16	.519	.1209	-.074	-.107	-2.2		-.47	-.030	.0168	.008	.046	-2.1
0.90	-4.19	-.248	.0237	.035	.007	-2.1		16.22	.687	.2056	-.093	-.160	-2.2		.50	.001	.0160	.003	.038	-2.1
	-2.10	-.148	.0137	.029	.027	-2.1		17.24	.734	.2386	-.096	-.173	-2.2		.97	.020	.0166	0	.034	-2.1
	-1.05	-.106	.0111	.028	.045	-2.0									1.99	.053	.0178	-.005	.021	-2.1
	-.52	-.078	.0105	.025	.027	-2.1	1.50	-4.05	-.189	.0300	.034	.123	-2.1		4.03	.122	.0240	-.015	-.006	-2.2
	.48	-.028	.0097	.021	.001	-2.1		-2.01	-.104	.0204	.021	.101	-2.1		6.06	.191	.0346	-.024	-.029	-2.2
	1.01	-.003	.0092	.020	- -	-2.2		-.99	-.062	.0175	.014	.080	-2.1		8.08	.258	.0500	-.033	-.051	-2.2
	2.06	.042	.0097	.017	.003	-2.1		-.47	-.040	.0168	.011	.061	-2.1		10.08	- - -	.0624	-.044	-.062	-2.2
	4.11	.133	.0150	.012	.037	-2.0		.50	- - -	.0163	.004	.046	-2.1		12.13	.385	.0933	-.048	-.091	-2.2
	6.21	.240	.0279	.005	.015	-2.1									16.18	.507	.1544	-.060	-.131	-2.2

TABLE IV.- CONTINUED



(e) Nominal δ, -4°

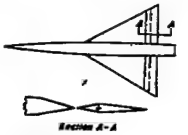
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.18	-0.298	0.0247	0.038	-0.010	-4.2	0.90	6.24	0.200	0.0287	0.029	0.121	-3.8	1.50	4.05	0.135	0.0262	-0.009	0.029	-4.2
	-2.10	-.167	.0149	.034	-.015	-4.2		8.29	.312	.0506	.080	.092	-3.9		6.07	.216	.0380	-.021	-.003	-4.2
	-1.06	-.129	.0127	.034	-.005	-4.2		10.38	.421	.0814	.011	.065	-3.9		8.10	.298	.0596	-.033	-.032	-4.2
	-.54	-.112	.0118	.034	---	-4.2		12.47	.522	.1190	.003	.058	-4.0		10.13	.387	.0795	-.045	-.059	-4.2
	.50	-.071	.0104	-----	---	-4.2									12.15	.458	.1081	-.057	-.086	-4.2
	.97	-.051	.0103	.034	.002	-4.2	1.20	-4.05	-.256	.0367	.060	.194	-4.1		14.18	.539	.1433	-.067	-.113	-4.2
	2.01	-.008	.0110	.032	.002	-4.2		-2.02	-.156	.0253	.044	.189	-4.1		16.22	.618	.1849	-.076	-.135	-4.3
	4.90	.077	.0184	.029	.002	-4.2		-1.00	-.104	.0214	.035	.177	-4.1		17.23	.653	.2066	-.079	-.144	-4.3
	6.19	.176	.0213	.023	---	-4.2		-.48	-.076	.0201	.031	.171	-4.1							
	10.32	.390	.0697	.016	-.026	-4.3		.50	-.028	.0188	.024	.154	-4.1	1.70	-4.04	-.182	.0316	.038	.137	-4.1
	12.39	.481	.1016	.015	-.034	-4.3		1.02	-.002	.0190	.020	.141	-4.1		-2.01	-.105	.0218	.026	.114	-4.2
	14.48	.590	.1444	.013	-.031	-4.3		2.04	.048	.0210	.013	.116	-4.2		-.98	-.063	.0184	.019	.100	-4.2
	16.58	.718	.2014	.007	-.028	-4.3		4.05	.148	.0266	-.004	.093	-4.2		-.47	-.044	.0173	.016	.093	-4.2
	17.62	.760	.2272	.006	-.031	-4.3		6.08	.256	.0404	-.021	.069	-4.2		.50	-.007	.0163	.011	.077	-4.2
								8.12	.363	.0627	-.037	.024	-4.2		1.02	.012	.0168	.008	.068	-4.2
0.80	-4.20	-.270	.0273	.045	-.010	-4.2		10.15	.470	.0927	-.053	-.008	-4.2		1.99	.048	.0186	.003	.051	-4.2
	-2.12	-.174	.0162	.038	-.014	-4.2		12.19	.589	.1312	-.073	-.047	-4.2		4.04	.124	.0245	-.008	.013	-4.2
	-1.08	-.137	.0132	.039	.008	-4.2	1.30	-4.05	-.237	.0390	.052	.197	-4.1		6.07	.201	.0355	-.019	-.018	-4.2
	-.58	-.116	.0127	.040	.004	-4.2		-2.02	-.144	.0279	.039	.176	-4.1		8.09	.277	.0517	-.030	-.044	-4.2
	.50	-.064	.0115	.035	-.016	-4.3		-1.00	-.092	.0238	.030	.163	-4.1		10.12	.349	.0728	-.040	-.067	-4.2
	.98	-.042	.0112	.034	-.018	-4.3		-.48	-.066	.0225	.026	.153	-4.1		12.14	.424	.0997	-.050	-.090	-4.2
	2.02	-.003	.0105	.034	-.010	-4.2		.50	-.021	.0212	.019	.134	-4.1		14.17	.495	.1311	-.060	-.114	-4.2
	4.11	.083	.0131	.031	.014	-4.2		1.02	.003	.0215	.016	.123	-4.2		16.20	.553	.1645	-.064	-.134	-4.3
	6.22	.188	.0235	.024	.008	-4.2		2.05	.052	.0237	.009	.088	-4.2		17.21	.588	.1849	-.067	-.144	-4.3
	8.27	.298	.0437	.017	-.010	-4.2		4.05	.146	.0292	-.006	.059	-4.2	1.90	-4.04	-.160	.0309	.031	.118	-4.2
	10.36	.404	.0737	.015	-.031	-4.3		6.08	.245	.0486	-.021	.024	-4.2		-2.00	-.092	.0222	.022	-.048	-4.2
	12.45	.505	.1102	.008	-.024	-4.3		8.11	.341	.0689	-.036	-.016	-4.2		-.98	-.056	.0193	.017	-.082	-4.2
	14.54	.612	.1555	.002	-.018	-4.3		10.14	.437	.0905	-.051	-.041	-4.2		-.47	-.038	.0183	.014	-.078	-4.2
	16.63	.715	.2084	-.003	-.020	-4.3		12.17	.532	.1247	-.064	-.070	-4.2		.51	-.005	.0174	.009	-.068	-4.2
	17.70	.802	.2490	-.012	-.024	-4.3		14.21	.625	.1661	-.077	-.097	-4.2		1.01	.012	.0175	.007	-.062	-4.2
								16.24	.703	-----	-.088	-.126	-4.3		1.99	.046	.0187	.002	-.046	-4.2
0.90	-4.21	-.278	.0281	.049	-.003	-4.2		17.25	.748	-----	-.092	-.141	-4.3		4.03	.114	.0242	-.008	-.015	-4.2
	-2.13	-.182	.0173	.043	.007	-4.2									6.06	.184	.0343	-.017	-.010	-4.2
	-1.08	-.144	.0146	.044	.040	-4.1	1.50	-4.01	-.119	.0235	.031	.141	-4.1		8.08	.250	.0488	-.026	-.031	-4.2
	-.56	-.122	.0136	.043	---	-4.1		-.97	-.072	.0199	.023	.124	-4.1		10.11	.318	.0687	-.034	-.054	-4.2
	.49	-.066	.0127	.040	.040	-4.1		-.47	-.052	.0188	.019	.115	-4.2		12.13	.379	.0914	-.042	-.077	-4.2
	.98	-.042	.0126	.039	.038	-4.1		.50	-.011	.0179	.013	.098	-4.2		14.16	.440	.1194	-.048	-.099	-4.2
	2.03	.006	.0121	.036	.040	-4.1		1.02	.010	.0182	.010	.087	-4.2		16.18	.501	.1519	-.053	-.119	-4.2
	4.13	.090	.0158	.037	.112	-3.8		1.99	.050	.0201	.004	.059	-4.2		17.19	.532	.1701	-.055	-.128	-4.3

(f) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.21	-0.310	0.0334	0.062	-0.026	-8.3	0.90	8.30	0.246	0.0474	0.052	0.160	-7.7	1.50	4.11	0.106	0.0274	0.011	0.105	-8.2
	-2.14	-.225	.0234	.060	-.036	-8.3		10.39	.350	.0746	.046	.161	-7.7		6.08	.187	.0367	-.001	.068	-8.2
	-1.10	-.186	.0191	.060	-.039	-8.3		12.44	.467	.1107	.034	.143	-7.7		8.10	.267	.0521	-.013	.027	-8.2
	-.59	-.177	.0174	.062	-.031	-8.3		14.54	.577	.1547	.022	.139	-7.7		10.13	.347	.0736	-.025	-.003	-8.2
	.45	-.135	.0156	.061	-.036	-8.3									12.16	.426	.1002	-.036	-.036	-8.2
	.97	-.119	.0139	.062	-.026	-8.3	1.90	-4.04	-.276	.0453	.080	.275	-8.1		14.18	.502	.1322	-.047	-.070	-8.2
	1.95	-.083	.0127	.060	-.015	-8.2		-2.02	-.196	.0319	.069	.273	-8.1		16.21	.577	.1698	-.057	-.101	-8.2
	4.03	0	.0120	.060	-.010	-8.2		-1.00	-.144	.0272	.061	.276	-8.1		17.25	.699	.2117	-.069	-.116	-8.2
	6.12	.096	.0169	.055	-.013	-8.2		-.49	-.119	.0254	.056	.279	-8.1							
	8.22	.198	.0313	.049	-.021	-8.3		.49	-.072	.0238	.049	.263	-8.1	1.70	-4.04	-.200	.0379	.049	.207	-8.1
	10.32	.310	.0562	.046	-.037	-8.3		1.01	-.047	.0232	.046	.247	-8.1		-2.01	-.123	.0272	.039	.186	-8.1
	12.40	.410	.0894	.045	-.031	-8.3		2.03	0	.0243	.040	.223	-8.1		-.98	-.084	.0228	.032	.173	-8.1
	14.43	.508	.1262	.043	-.026	-8.3		4.09	.093	.0264	.026	.174	-8.1		-.47	-.054	.0211	.029	.166	-8.1
	16.52	.617	.1739	.042	-.026	-8.3		6.08	.193	.0365	.011	.139	-8.1		.50	-.030	.0200	.025	.149	-8.1
	17.56	.670	.2007	.042	-.025	-8.3		8.11	.297	.0556	-.005	.102	-8.2		1.01	-.013	.0200	.023	.134	-8.1
								10.15	.401	.0824	-.020	.076	-8.2		2.03	.020	.0213	.020	.109	-8.2
0.80	-4.22	-.310	.0378	.066	-.004	-8.2		12.18	.503	.1147	-.034	.041	-8.2		4.03	.097	.0255	.009	.071	-8.2
	-2.14	-.255	.0256	.064	-.027	-8.3									6.07	.173	.0346	-.002	.035	-8.2
	-1.12	-.194	.0215	.067	-.039	-8.3	1.30	-4.04	-.253	.0461	.068	.288	-8.1		8.09	.248	.0490	-.013	.001	-8.2
	-.60	-.182	.0207	.071	-.029	-8.3		-2.01	-.172	.0333	.060	.259	-8.1		10.11	.321	.0685	-.023	-.024	-8.2
	.45	-.186	.0179	.064	-.039	-8.3		-1.00	-.119	.0281	.049	.266	-8.1		12.14	.391	.0928	-.033	-.055	-8.2
	.93	-.103	.0167	.062	-.039	-8.3		-.48	-.095	.0264	.045	.258	-8.1		14.17	.462	.1219	-.041	-.082	-8.2
	1.98	-.061	.0152	.061	-.027	-8.3		.49	-.054	.0245	.039	.232	-8.1		16.20	.530	.1563	-.048	-.108	-8.2
	4.04	.002	.0140	.066	.018	-8.1		1.01	-.034	.0243	.037	.219	-8.1		17.21	.564	.1761	-.051	-.124	-8.3
	6.16	.105	.0208	.059	.036	-8.1		2.04	.012	.0260	.031	.197	-8.1							
	8.27	.220	.0376	.051	-.012	-8.2		4.09	.103	.0290	.018	.144	-8.1	1.90	-4.03	-.178	.0361	.042	.179	-8.1
	10.36	.326	.0688	.048	-.010	-8.2		6.08	.193	.0389	.006	.102	-8.2		2.00	-.108	.0263	.032	.128	-8.1
	12.44	.425	.0953	.042	.006	-8.2		8.11	.283	.0527	-.008	.057	-8.2		-.96	-.074	.0227	.027	.147	-8.1
	14.48	.529	.1365	.038	.012	-8.2		10.14	.377	.0796	-.022	.025	-8.2		-.47	-.056	.0214	.025	.139	-8.1
	16.58	.634	.1877	.032	.014	-8.2		12.17	.466	.1095	-.036	-.008	-8.2		.50	-.035	.0205	.022	.122	-8.2
	17.62	.681	.2130	.031	.010	-8.2		14.20	.556	.1467	-.050	-.038	-8.2		1.01	-.010	.0203	.020	.113	-8.2
								16.23	.643	.1899	-.061	-.073	-8.2		2.03	.023	.0206	.016	.096	-8.2
0.90	-4.23	-.323	.0434	.077	.075	-8.0		17.25	.685	.2143	-.065	-.085	-8.2		4.03	.092	.0249	.007	.063	-8.2
	-2.14	-.223	.0286	.069	.059	-8.0									6.06	.162	.0336	-.003	.031	-8.2
	-1.12	-.195	.0243	.071	.071	-8.0	1.50	-4.04	-.222	.0401	.057	.243	-8.1		8.09	.233	.0473	-.012	.001	-8.2
	-.60	-.176	.0237	.073	.075	-8.0		-2.01	-.147	.0290	.048	.223	-8.1		10.11	.300	.0653	-.021	-.023	-8.2
	.46	-.122	.0211	.069	.063	-8.0		-.99	-.098	.0242	.038	.214	-8.1		12.13	.362	.0873	-.028	-.049	-8.2
	.93	-.101	.0196	.068	.058	-8.0		-.48	-.078	.0229	.035	.206	-8.1		14.16	.425	.1140	-.035	-.076	-8.2
	1.98	-.057	.0173	.065	.044	-8.1		.50	-.040	.0215	.030	.185	-8.1		16.18	.487	.1461	-.039	-.102	-8.2
	4.07	.018	.0175	.067	.123	-7.8		1.01	-.020	.0214	.028	.172	-8.1		17.43	.518	.1699	- - -	-.116	-8.2
	6.19	.124	.0260	.062	.143	-7.7		2.04	.023	.0228	.022	.149	-8.1							

NACA

TABLE IV.- CONCLUDED



(g) Nominal δ, -12°

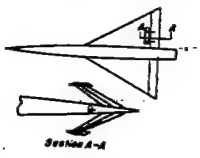
M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-0.62	-0.214	0.0291	0.079	-0.007	-12.0	0.90	12.45	0.397	0.1036	0.065	-0.180	-11.4	1.50	4.08	0.073	0.0309	0.085	0.182	-12.2
	.42	-.176	.0261	.078	-.013	-12.0		14.54	.509	.1522	.052	.190	-11.3		6.13	.154	.0351	.019	.134	-12.2
	.94	-.153	.0247	.079	-.018	-12.0									8.10	.235	.0524	.007	.090	-12.2
	1.93	-.116	.0220	.078	-.023	-12.0	1.20	-4.03	-.301	.0590	.094	.354	-12.1		10.13	.317	.0722	-.006	.055	-12.2
	3.98	-.068	.0168	.086	-.031	-12.0		-2.01	-.221	.0425	.087	.360	-12.1		12.16	.392	.0962	-.017	.026	-12.2
	6.07	.030	.0191	.082	-.039	-12.0		-1.00	-.178	.0375	.083	.350	-12.1		14.19	.470	.1262	-.027	-.014	-12.3
	8.17	.134	.0295	.077	-.047	-12.1		-.49	-.154	.0355	.079	.345	-12.1		16.22	.549	.1631	-.037	-.057	-12.3
	10.26	.242	.0503	.075	-.056	-12.1		.48	-.111	.0330	.073	.334	-12.1		17.23	.585	.1832	-.040	-.078	-12.3
	12.35	.330	.0751	.074	-.053	-12.1		1.00	-.089	.0328	.070	.326	-12.1	1.70	-4.03	-.210	.0460	.060	.287	-12.1
	14.43	.432	.1106	.073	-.047	-12.1		2.03	-.041	.0318	.066	.319	-12.1		-2.01	-.142	.0341	.051	.263	-12.1
	16.52	.538	.1561	.072	-.045	-12.1		4.08	.044	.0304	.055	.260	-12.1		-.99	-.102	.0291	.044	.255	-12.1
	17.56	.590	.1830	.072	-.045	-12.1		6.14	.142	.0387	.041	.213	-12.2		-.48	-.084	.0272	.042	.244	-12.1
								8.17	.247	.0557	.026	.175	-12.2		.50	-.053	.0255	.039	.220	-12.2
0.80	-4.22	-.316	.0507	.073	.094	-11.7		10.25	.343	.0788	.011	.134	-12.2		1.01	-.037	.0256	.036	.208	-12.2
	-2.15	-.232	.0374	.071	.075	-11.7		12.18	.440	.1070	.001	.098	-12.2		2.03	-.004	.0265	.035	.183	-12.2
	-1.12	-.204	.0329	.076	.061	-11.8		14.22	.549	.1434	-.012	.063	-12.2		4.08	.071	.0292	.025	.137	-12.2
	-.62	-.209	.0315	.085	.029	-11.9									6.07	.147	.0367	.014	.095	-12.2
	.42	-.174	.0296	.087	.002	-11.9	1.30	-4.03	-.262	.0566	.082	.364	-12.1		8.10	.222	.0495	.003	.057	-12.2
	.94	-.151	.0270	.085	-.002	-12.0		-2.00	-.201	.0429	.077	.339	-12.1		10.12	.297	.0680	-.007	.026	-12.2
	1.93	-.111	.0243	.085	-.010	-12.0		-.99	-.149	.0365	.066	.337	-12.1		12.15	.365	.0896	-.017	-.004	-12.3
	3.99	-.065	.0194	.094	-.018	-12.0		-.48	-.125	.0342	.062	.334	-12.1		14.17	.436	.1177	-.026	-.041	-12.3
	6.10	.038	.0223	.089	-.021	-12.0		.50	-.089	.0324	.058	.316	-12.1		16.20	.504	.1505	-.032	-.078	-12.3
	8.22	.152	.0360	.081	-.044	-12.1		1.01	-.066	.0318	.056	.310	-12.1		17.34	.539	.1693	-.035	-.100	-12.3
	10.31	.247	.0570	.081	-.027	-12.0		2.04	-.021	.0335	.051	.300	-12.1							
	12.39	.342	.0866	.077	-.050	-12.1		4.09	.063	.0331	.039	.288	-12.2							
	14.48	.443	.1216	.073	.035	-11.8		6.14	.149	.0413	.030	.286	-12.2	1.90	-4.03	-.186	.0439	.050	.260	-12.1
	16.56	.550	.1682	.069	.052	-11.8		8.14	.248	.0564	.016	.139	-12.2		-2.00	-.121	.0329	.041	.238	-12.2
	17.62	.599	.1928	.067	.052	-11.8		10.14	.334	.0776	.002	.101	-12.2		-.98	-.087	.0286	.035	.226	-12.2
								12.17	.425	.1056	-.011	.064	-12.2		-.47	-.073	.0271	.035	.215	-12.2
0.90	-4.23	-.346	.0599	.097	.170	-11.4		14.20	.505	.1381	-.024	.034	-12.2		.50	-.047	.0257	.034	.186	-12.2
	-2.16	-.253	.0440	.090	.145	-11.5		16.23	.570	.1778	-.035	-.006	-12.3		1.01	-.031	.0250	.032	.173	-12.2
	-1.13	-.221	.0373	.089	.135	-11.5		17.24	.631	.2001	-.039	-.032	-12.3		2.03	0	.0247	.029	.158	-12.2
	-.61	-.208	.0352	.091	.135	-11.5									4.07	.069	.0278	.020	.116	-12.2
	.43	-.168	.0331	.093	.127	-11.5	1.50	-4.04	-.242	.0508	.071	.332	-12.1		6.06	.138	.0346	.010	.080	-12.2
	.90	-.144	.0311	.091	.121	-11.6		-2.01	- - -	- - -	- - -	- - -	-12.1		8.08	.204	.0459	.001	.044	-12.2
	1.95	-.101	.0284	.089	.121	-11.6		-1.00	-.123	.0316	.054	.298	-12.1		10.11	.270	.0623	-.007	.009	-12.2
	4.03	-.027	.0236	.088	.101	-11.6		-.48	-.101	.0301	.051	.298	-12.1		12.13	.335	.0833	-.014	-.020	-12.3
	6.15	.077	.0291	.083	.104	-11.6		.49	-.063	.0281	.046	.263	-12.1		14.16	.398	.1087	-.023	-.048	-12.3
	8.27	.193	.0466	.076	.107	-11.6		1.00	-.046	.0277	.044	.251	-12.1		16.18	.457	.1380	-.024	-.081	-12.3
	10.35	.285	.0704	.074	.155	-11.4		2.03	.003	.0283	.038	.240	-12.2		17.20	.488	.1554	-.025	-.095	-12.3

(h) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ	M	α	C_L	C_D	C_m	C_h	δ
0.60	-4.20	-0.308	0.0581	0.071	0.128	-16.1	0.90	-6.11	0.027	0.0341	0.102	0.079	-16.1	1.50	4.07	0.039	0.0371	0.048	0.235	-16.3
	-2.14	-.229	.0472	.071	.112	-16.1		8.23	.145	.0475	.091	.062	-16.1		6.13	.121	.0436	.037	.182	-16.3
	-1.11	-.204	.0435	.076	.113	-16.1		10.33	.244	.0684	.091	.070	-16.1		8.16	.204	.0558	.025	.136	-16.3
	-.60	-.199	.0416	.082	.109	-16.1		12.40	.325	.0946	.068	.077	-16.1		10.14	.286	.0733	.012	.100	-16.3
	.42	-.186	.0395	.090	.077	-16.2									12.16	.366	.0963	.001	.059	-16.3
	.94	-.165	.0380	.090	.077	-16.2	1.20	-4.03	-.317	.0766	.110	.396	-16.2		14.19	.442	.1247	-.009	.021	-16.3
	1.92	-.131	.0349	.090	.072	-16.2		-2.01	-.242	.0566	.101	.416	-16.2		16.22	.516	.1586	-.018	-.027	-16.4
	3.96	-.096	.0287	.102	.053	-16.2		-.99	-.209	.0509	.100	.401	-16.2		17.23	.554	.1782	-.022	-.053	-16.4
	6.05	-.008	.0274	.098	.040	-16.3		-.49	-.188	.0487	.097	.396	-16.2							
	8.14	.096	.0361	.092	.026	-16.3		.48	-.145	.0451	.092	.385	-16.2	1.70	-4.03	-.226	.0571	.070	.356	-16.2
	10.24	.197	.0545	.092	.010	-16.3		.99	-.125	.0439	.090	.378	-16.2		-2.01	-.155	.0430	.060	.314	-16.2
	12.31	.272	.0738	.096	-.029	-16.4		2.02	-.081	.0416	.086	.370	-16.2		-1.00	-.119	.0376	.055	.302	-16.2
	14.38	.356	.1008	.099	-.050	-16.5		4.06	0	.0378	.077	.318	-16.2		-.48	-.102	.0352	.052	.290	-16.2
	16.47	.460	.1405	.099	-.053	-16.5		6.13	.094	.0442	.066	.273	-16.2		.49	-.071	.0333	.050	.268	-16.2
	17.51	.513	.1633	.099	-.053	-16.5		8.17	.197	.0586	.051	.229	-16.3		1.00	-.058	.0332	.050	.255	-16.2
								10.20	.303	.0808	.037	.192	-16.3		2.02	-.028	.0338	.049	.230	-16.3
0.80	-4.21	-.309	.0617	.076	.155	-15.9									4.07	.045	.0348	.036	.179	-16.3
	-2.14	-.228	.0454	.075	.141	-15.9	1.30	-4.03	-.286	.0699	.096	.418	-16.2		6.12	.102	.0409	.029	.135	-16.3
	-1.11	-.200	.0448	.079	.138	-15.9		-2.01	-.217	.0537	.089	.392	-16.2		8.10	.155	.0521	.018	.090	-16.3
	-.61	-.195	.0426	.083	.132	-15.9		-.99	-.172	.0477	.082	.383	-16.2		10.12	.209	.0685	.008	.050	-16.3
	.42	-.175	.0406	.090	.105	-16.0		-.49	-.151	.0460	.079	.378	-16.2		12.15	.341	.0896	-.002	.018	-16.3
	.94	-.157	.0390	.091	.103	-16.0		.48	-.113	.0431	.074	.365	-16.2		14.18	.409	.1154	-.010	-.021	-16.4
	1.93	-.121	.0357	.091	.094	-16.1		1.00	-.092	.0423	.072	.352	-16.2		16.20	.477	.1467	-.017	-.065	-16.4
	3.99	-.076	.0304	.101	.071	-16.1		2.02	-.051	.0423	.068	.359	-16.2		17.22	.511	.1647	-.019	-.088	-16.4
	6.09	.019	.0307	.096	.065	-16.2		4.07	.024	.0397	.061	.294	-16.2							
	8.20	.128	.0429	.091	.089	-16.3		6.13	.109	.0462	.052	.244	-16.3	1.90	-4.03	-.201	.0531	.059	.315	-16.2
	10.29	.217	.0606	.092	.092	-16.3		8.16	.201	.0595	.039	.196	-16.3		-2.01	-.136	.0435	.050	.287	-16.2
	12.35	.276	.0811	.105	-.027	-16.4		10.14	.293	.0790	.026	.160	-16.3		-.99	-.103	.0359	.046	.271	-16.2
	14.44	.368	.1120	.107	-.031	-16.4		12.17	.389	.1056	.011	.120	-16.3		-.48	-.088	.0341	.045	.260	-16.2
	16.52	.468	.1521	.101	-.037	-16.5		14.20	.475	.1371	-.002	.075	-16.3		.49	-.066	.0329	.045	.226	-16.3
	17.57	.517	.1832	.100	-.033	-16.5		16.23	.558	.1747	-.013	.036	-16.3		1.00	-.052	.0325	.045	.217	-16.3
								17.25	.599	.1962	-.018	.008	-16.3		2.02	-.021	.0318	.042	.198	-16.3
0.90	-4.22	-.321	.0674	.087	.208	-15.7									4.07	.047	.0332	.033	.158	-16.3
	-2.15	-.239	.0533	.085	.190	-15.7	1.50	-4.03	-.255	.0624	.082	.391	-16.2		6.11	.116	.0387	.023	.115	-16.3
	-1.12	-.212	.0479	.089	.175	-15.8		-2.01	-.191	.0480	.076	.351	-16.2		8.09	.184	.0487	.014	.070	-16.3
	-.61	-.210	.0463	.096	.146	-15.9		-1.00	-.143	.0415	.067	.336	-16.2		10.11	.250	.0641	.006	.031	-16.3
	.41	-.192	.0446	.105	.134	-15.9		-.49	-.123	.0395	.063	.327	-16.2		12.13	.313	.0835	-.001	-.003	-16.4
	.88	-.171	.0428	.104	.128	-15.9		.49	-.088	.0370	.059	.310	-16.2		14.16	.377	.1077	-.007	-.039	-16.4
	1.92	-.135	.0393	.105	.120	-16.0		1.00	-.070	.0365	.058	.304	-16.2		16.19	.437	.1364	-.010	-.076	-16.4
	4.00	-.073	.0336	.109	.107	-16.0		2.03	-.029	.0368	.053	- -	-16.2		17.20	.487	.1530	-.011	-.091	-16.4

NACA

TABLE V.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH 38-PERCENT-SPAN PADDLE BALANCES MOUNTED ON THE UPPER AND LOWER SURFACES OF THE FLAP. DATA FOR ONE FLAP. $R = 4.4 \times 10^6$



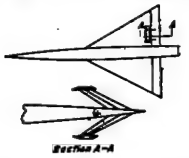
(a) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.16	-.158	0.0162	-0.008	0.009	-0.0048	1.9
	-2.06	-.073	.0114	-.007	.003	-.0049	1.9
	-1.03	-.027	.0097	-.005	.018	-.0049	1.9
	-.51	-.005	.0093	-.010	.017	-.0049	1.9
	.49	.040	.0098	-.011	.016	-.0048	1.9
	1.02	.063	.0106	-.018	.011	-.0048	1.9
	2.09	.106	.0126	-.014	.005	-.0051	1.9
	4.18	.197	.0195	-.018	-.007	-.0052	1.8
	6.28	.294	.0328	-.023	-.019	-.0054	1.8
	8.38	.396	.0527	-.028	-.030	-.0049	1.8
	10.49	.494	.0801	-.026	-.037	-.0044	1.7
	12.60	.595	.1156	-.024	-.103	-.0047	1.7
	14.70	.689	.1708	-.023	-.131	-.0058	1.6
	16.82	.804	.2299	-.027	-.152	-.0031	1.6
	17.88	.852	.2602	-.032	-.172	.0004	1.5
0.80	-4.20	-.173	.0181	0	.031	-.0049	1.9
	-2.08	-.075	.0112	-.007	.017	-.0049	1.9
	-1.05	-.028	.0099	-.009	.009	-.0048	1.9
	-.52	-.005	.0098	-.011	.004	-.0048	1.9
	.50	.041	.0103	-.018	-.003	-.0046	1.8
	1.04	.063	.0105	-.018	-.005	-.0045	1.8
	2.10	.113	.0136	-.016	-.012	-.0046	1.8
	4.21	.208	.0213	-.021	-.029	-.0047	1.8
	6.33	.314	.0376	-.023	-.043	-.0047	1.8
	8.45	.425	.0630	-.034	-.065	-.0045	1.7
	10.55	.497	.0923	-.032	-.109	-.0031	1.6
	12.67	.590	.1334	-.033	-.146	-.0026	1.5
	14.79	.703	.1840	-.036	-.168	-.0028	1.7
	16.91	.801	.2407	-.035	-.185	-.0026	1.4
0.90	-4.21	-.184	.0194	.008	.038	-.0053	1.9
	-2.09	-.081	.0131	-.006	.016	-.0051	1.9
	-1.06	-.031	.0105	-.010	.009	-.0050	1.9
	-.52	-.005	.0103	-.011	.008	-.0049	1.9
	.50	.042	.0110	-.015	---	-.0049	---
	1.04	.067	.0120	-.015	---	-.0048	1.9
	2.11	.117	.0143	-.017	-.007	-.0047	1.8
	4.23	.220	.0235	-.025	-.029	-.0047	1.8
0.90	6.35	.331	0.0408	-0.034	0.046	-0.0048	1.7
	8.45	.414	.0637	-.029	-.071	-.0035	1.7
	10.58	.520	.0986	-.032	-.118	-.0023	1.9
	12.70	.611	.1410	-.039	-.184	-.0014	1.4
1.20	-4.11	-.199	.0283	.003	.023	-.0027	1.9
	-2.05	-.097	.0195	.001	.019	-.0027	1.9
	-1.01	-.048	.0172	.003	-.020	-.0028	1.8
	-.48	-.024	.0168	0	-.030	-.0028	1.8
	.47	.025	.0169	-.008	-.049	-.0031	1.7
	1.00	.058	.0177	-.012	-.057	-.0030	1.7
	2.04	.102	.0202	-.018	-.071	-.0032	1.6
	4.10	.201	.0294	-.033	-.095	-.0033	1.6
	6.16	.305	.0457	-.049	-.121	-.0030	1.7
	8.22	.408	.0688	-.066	-.158	-.0028	1.4
	10.28	.512	.2085	-.080	-.208	-.0014	1.3
	12.35	.620	.2373	-.096	-.266	0	1.1
1.30	-4.11	-.185	.0303	.024	.053	-.0030	2.0
	-2.05	-.091	.0219	.010	.016	-.0027	1.9
	-1.01	-.045	.0197	.003	-.007	-.0025	1.8
	-.48	-.021	.0192	0	-.018	-.0024	1.8
	.48	.025	.0194	-.007	-.044	-.0024	1.7
	1.00	.049	.0201	-.010	-.055	-.0022	1.7
	2.04	.096	.0225	-.017	-.077	-.0022	1.6
	4.10	.187	.0311	-.031	-.116	-.0021	1.5
	6.16	.283	.0469	-.044	-.148	-.0022	1.4
	8.22	.380	.0698	-.057	-.180	-.0022	1.3
	10.27	.466	.0975	-.071	-.221	-.0023	1.2
	12.33	.573	.1322	-.082	-.264	-.0022	1.1
	14.40	.635	.1768	-.093	-.293	-.0022	1.0
	16.45	.718	.2196	-.102	-.319	-.0029	.9
	17.48	.757	.2446	-.106	-.330	-.0036	.9
1.50	-4.10	-.168	.0281	.022	.059	-.0026	2.0
	-2.05	-.084	.0203	.009	.023	-.0023	1.9
	-1.00	-.041	.0182	.003	.007	-.0022	1.9
	-.48	-.020	.0177	0	-.001	-.0021	1.8
	.47	.023	.0177	-.006	-.022	-.0018	1.8
1.50	1.00	0.046	0.0186	-0.010	0.033	-0.0018	1.7
	2.04	.089	.0209	-.016	-.050	-.0017	1.7
	4.10	.180	.0296	-.029	-.093	-.0014	1.6
	6.15	.259	.0432	-.041	-.135	-.0010	1.4
	8.20	.348	.0631	-.052	-.176	-.0009	1.3
	10.25	.430	.0889	-.064	-.224	-.0009	1.2
	12.31	.498	.1195	-.074	-.256	-.0006	1.1
	14.36	.572	.1555	-.083	-.277	-.0004	1.0
	16.42	.645	.1970	-.091	-.303	-.0007	.9
	17.45	.681	.2200	-.095	-.313	-.0015	.9
1.70	-4.09	-.157	.0269	.020	.057	-.0021	2.1
	-2.04	-.079	.0194	.009	.035	-.0018	2.0
	-1.00	-.040	.0176	.004	.017	-.0016	1.9
	-.48	-.020	.0171	.001	.010	-.0015	1.9
	.47	.020	.0173	-.005	-.008	-.0014	1.8
	1.00	.041	.0178	-.008	-.018	-.0016	1.8
	2.04	.081	.0199	-.014	-.038	-.0016	1.7
	4.09	.158	.0276	-.025	-.073	-.0008	1.6
	6.14	.236	.0407	-.036	-.108	-.0004	1.5
	8.19	.310	.0586	-.046	-.141	-.0002	1.4
	10.23	.379	.0815	-.055	-.177	.0001	1.3
	12.29	.449	.1093	-.064	-.206	.0004	1.2
	14.34	.516	.1415	-.072	-.246	.0007	1.1
	16.39	.580	.1787	-.077	-.282	.0007	1.0
	17.42	.611	.1969	-.080	-.295	.0005	.9
1.90	-4.08	-.140	.0273	.017	.062	-.0018	2.0
	-2.04	-.071	.0202	.007	.031	-.0015	1.9
	-1.00	-.036	.0182	.002	.018	-.0014	1.9
	.47	.017	.0178	-.005	---	-.0012	---
	.99	.036	.0181	-.008	-.015	-.0011	1.8
	2.03	.072	.0197	-.013	-.032	-.0010	1.8
	4.08	.141	.0267	-.022	-.063	-.0007	1.7
	6.12	.210	.0385	-.031	-.098	-.0003	1.6
	8.17	.276	.0544	-.039	-.130	0	1.5
	10.22	.341	.0753	-.048	-.175	.0006	1.3
	12.30	.400	.1230	-.059	-.202	.0008	1.2
	16.36	.519	.1618	-.068	-.228	.0010	1.2
	17.38	.548	.1807	-.064	-.241	.0012	1.1

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.18	-0.186	0.0183	0.006	0.023	-0.0012	---
	-2.07	-.091	.0123	.001	.017	-.0015	-.2
	-1.03	-.047	.0104	-.001	.012	-.0014	-.2
	-.48	-.025	.0099	-.001	.012	-.0012	-.2
	.48	.020	.0099	-.002	.007	-.0013	-.2
	.99	.042	.0102	-.003	.005	-.0013	-.2
	2.07	.087	.0120	-.005	.005	-.0014	-.2
	4.16	.179	.0188	-.010	-.007	-.0017	-.3
	6.26	.275	.0300	-.015	-.016	-.0019	-.3
	8.35	.375	.0523	-.018	-.026	-.0011	-.3
	10.46	.475	.0820	-.020	-.059	-.0014	-.4
	12.56	.573	.1206	-.017	-.092	-.0016	-.4
	14.67	.671	.1668	-.016	-.111	-.0016	-.4
	16.79	.794	.2276	-.020	-.138	-.0026	-.5
	17.85	.843	.2587	-.019	-.147	-.0026	-.5
0.80	-4.20	-.189	.0190	.009	.024	-.0013	-.2
	-2.10	-.093	.0122	.003	.018	-.0013	-.2
	-1.03	-.048	.0100	0	.012	-.0012	-.2
	-.49	-.024	.0098	-.001	.011	-.0011	-.2
	.48	.021	.0096	-.003	.000	-.0010	-.2
	1.02	.046	.0110	-.004	.000	-.0009	-.2
	2.09	.092	.0121	-.007	0	-.0011	-.3
	4.20	.190	.0201	-.013	.011	-.0011	-.3
	6.31	.293	.0343	-.020	.027	-.0011	-.3
	8.43	.401	.0595	-.024	.038	-.0003	-.3
	10.54	.481	.0892	-.018	.037	-.0002	-.3
	12.66	.586	.1306	-.024	.114	-.0001	-.3
	14.79	.698	.1825	-.030	.130	-.0011	-.3
	16.90	.791	.2377	-.032	.146	.0004	-.3
	17.95	.830	.2663	-.032	.163	.0011	-.3
0.90	-4.22	-.206	.0222	.012	.031	-.0015	-.2
	-2.10	-.098	.0133	.004	.018	-.0012	-.2
	-1.05	-.051	.0117	.001	.010	-.0010	-.2
	-.48	-.027	.0110	-.001	.006	-.0009	-.2
	.48	-.022	.0106	-.003	.002	-.0007	-.2
	1.03	.047	.0120	-.004	-.002	-.0007	-.3
	2.10	.097	.0140	-.006	-.011	-.0007	-.3
	4.21	.201	.0285	-.016	-.027	-.0007	-.3
0.90	6.33	.305	0.0889	-0.020	0.046	-0.0007	-0.4
	8.45	.404	.0637	-.023	-.065	-.0002	-.3
	10.57	.509	.1001	-.027	-.134	.0012	-.6
1.20	-4.11	-.207	.0288	.031	.053	-.0006	-.1
	-2.05	-.105	.0198	.015	.033	-.0004	-.2
	-1.01	-.056	.0173	.008	.021	-.0004	-.2
	-.48	-.030	.0168	.004	.011	-.0005	-.2
	.47	.017	.0169	-.002	-.008	-.0007	-.3
	1.00	.044	.0173	-.005	-.017	-.0009	-.3
	2.04	.094	.0197	-.014	-.034	-.0010	-.3
	4.10	.193	.0285	-.029	-.059	-.0012	-.4
	6.16	.296	.0444	-.045	-.097	-.0009	-.5
	8.22	.404	.0686	-.061	-.124	-.0042	-.6
	10.28	.507	.0999	-.077	-.172	.0002	-.7
	12.35	.617	.1396	-.092	-.224	.0018	-.9
	14.43	.687	.1710	-.082	-.260	---	-1.0
1.30	-4.09	-.192	.0304	.029	.082	-.0009	-.1
	-2.04	-.097	.0219	.014	.049	-.0003	0
	-1.01	-.052	.0196	.007	.027	-.0004	-.1
	-.44	-.027	.0198	.004	.015	-.0002	-.0
	.47	.018	.0188	-.002	-.005	-.0003	-.1
	.99	.042	.0196	-.006	-.017	-.0001	-.1
	2.04	.088	.0219	-.013	-.040	-.0002	-.2
	4.09	.181	.0303	-.027	-.081	-.0001	-.3
	6.14	.275	.0450	-.040	-.117	-.0001	-.4
	8.20	.371	.0676	-.054	-.151	-.0002	-.5
	10.26	.462	.0969	-.068	-.195	-.0002	-.6
	12.30	.550	.1310	-.080	-.234	-.0002	-.7
	14.36	.632	.1711	-.090	-.260	-.0002	-.8
	16.44	.715	.2183	-.100	-.286	-.0004	-.9
	17.49	.754	.2438	-.105	-.297	-.0007	-.9
1.50	-4.10	-.174	.0284	.025	.071	-.0013	0
	-2.05	-.088	.0202	.012	.039	-.0010	-.1
	-1.01	-.046	.0181	.006	.023	-.0007	-.2
	-.48	-.023	.0175	.003	.012	-.0007	-.2
	.47	.018	.0175	-.003	-.005	-.0005	-.3
	1.00	.040	.0182	-.006	-.013	-.0004	-.3
1.50	2.04	0.083	0.0204	-0.013	-0.035	-0.0002	-0.4
	4.09	.168	.0284	-.026	-.068	-.0001	-.5
	6.15	.253	.0421	-.038	-.108	.0002	-.4
	8.20	.337	.0622	-.049	-.150	.0003	-.7
	10.25	.416	.0879	-.061	-.202	.0003	-.9
	12.31	.499	.1192	-.072	-.233	.0007	-1.0
	14.36	.572	.1550	-.081	-.255	.0006	-1.0
	16.42	.643	.1968	-.089	-.279	.0005	-1.1
	17.45	.680	.2193	-.093	-.290	-.0001	-1.1
1.70	-4.09	-.159	.0271	.023	.072	-.0010	0
	-2.04	-.080	.0195	.012	.042	-.0006	-.1
	-1.00	-.043	.0175	.006	.026	-.0005	-.1
	-.48	-.022	.0170	.003	.017	-.0004	-.1
	.47	.016	.0171	-.003	.000	-.0002	-.1
	.99	.036	.0176	-.006	-.008	-.0001	-.2
	2.04	.076	.0195	-.011	-.026	-.0000	-.2
	4.09	.153	.0270	-.023	-.063	.0003	-.4
	6.13	.229	.0397	-.034	-.098	.0007	-.5
	8.18	.304	.0776	-.044	-.128	.0008	-.5
	10.23	.377	.0806	-.053	-.162	.0012	-.7
	12.28	.446	.1080	-.062	-.188	.0015	-.8
	14.33	.513	.1402	-.070	-.217	.0018	-.9
	16.39	.578	.1773	-.078	-.235	.0020	-1.0
	17.41	.611	.1960	-.078	-.271	.0017	-1.1
1.90	-4.11	-.144	.0268	.019	.070	.0008	-.1
	-2.04	-.074	.0197	.009	.039	.0005	0
	-1.00	-.039	.0180	.004	.023	.0004	0
	-.46	-.020	.0174	.002	.014	.0004	0
	.47	.013	.0173	.003	0	.0008	-.1
	.99	.032	.0177	.002	-.009	.0008	-.1
	2.04	.067	.0193	.010	-.023	0.	-.1
	4.10	.137	.0260	.020	-.057	.0008	-.2
	6.15	.205	.0373	.028	-.086	.0006	-.3
	8.21	.273	.0533	.037	-.115	.0009	-.4
	10.26	.337	.0739	.045	-.142	.0009	-.5
	12.32	.399	.0989	.051	-.166	.0015	-.6
	14.37	.460	.1274	.057	-.189	.0017	-.6
	16.42	.518	.1605	.062	-.213	.0019	-.7
	17.46	.548	.1797	.063	-.223	.0021	-.7

TABLE V.- CONTINUED



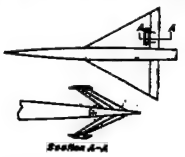
(c) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.19	-0.208	0.0210	0.014	0.007	0.0023	-2.0	0.90	6.30	0.282	0.0332	-0.011	-0.054	0.0011	-2.2	1.50	4.09	0.163	0.0268	-0.022	-0.079	0.0012	-2.2
	-2.09	-.114	.0141	.009	0	.0023	-2.1		8.42	.386	.0617	-.015	-.085	.0011	-2.3		6.15	.249	.0422	-.035	-.088	.0016	-2.3
	-1.04	-.070	.0120	.007	-.004	.0024	-2.1		10.54	.485	.0961	-.018	-.113	.0015	-2.3		8.20	.331	.0619	-.046	-.130	.0016	-2.3
	-.52	-.048	.0115	.007	-.006	.0024	-2.1										10.26	.414	.0873	-.058	-.185	.0017	-2.6
	.45	-.015	.0112	.005	-.009	.0024	-2.1	1.20	4.11	-.214	.0303	.036	.085	.0016	-1.8		12.31	.491	.1178	-.068	-.214	.0021	-2.7
	1.03	.022	.0113	.005	-.010	.0023	-2.1		2.05	-.114	.0210	.020	.054	.0019	-1.9		14.37	.566	.1534	-.078	-.237	.0022	-2.8
	2.05	.067	.0126	.003	-.015	.0021	-2.1		1.02	-.064	.0185	.013	.034	.0020	-1.9		16.43	.640	.1951	-.086	-.262	.0018	-2.9
	4.14	.156	.0182	-.002	-.025	.0019	-2.1		.49	-.039	.0179	.010	.048	.0018	-1.9		17.45	.674	.2175	-.090	-.273	.0049	-2.9
	6.24	.252	.0292	-.007	-.034	.0017	-2.1		.52	.022	.0178	.002	.027	.0017	-2.0								
	8.34	.353	.0507	-.011	-.045	.0023	-2.1		1.00	.036	.0182	-.001	.016	.0017	-2.0	1.70	-3.91	-.166	.0282	.025	.073	.0001	-1.8
	10.45	.458	.0784	-.013	-.076	.0020	-2.2		2.05	.086	.0205	-.009	-.002	.0012	-2.1		-2.04	-.088	.0207	.014	.044	.0005	-1.9
	12.57	.556	.1152	-.011	-.096	.0015	-2.2		4.10	.186	.0287	-.024	-.029	.0010	-2.1		-1.01	-.049	.0186	.008	.028	.0007	-2.0
	14.66	.663	.1631	-.010	-.111	.0021	-2.2		6.16	.288	.0441	-.040	-.058	.0009	-2.2		-.48	-.028	.0180	.005	.018	.0007	-2.0
	16.77	.770	.2207	-.014	-.131	.0056	-2.3		8.23	.396	.0679	-.056	-.096	.0016	-2.3		.47	.012	.0179	0	0	.0009	-2.1
	17.83	.829	.2517	-.014	-.131	.0095	-2.3		10.29	.498	.0988	-.072	-.145	.0020	-2.3		.99	.032	.0183	-.003	-.007	.0010	-2.1
									12.36	.610	.1389	-.087	-.193	.0036	-2.6		2.04	.072	.0201	-.009	-.025	.0012	-2.1
0.80	-4.22	-.216	.0286	.018	.023	.0024	-2.0										4.09	.147	.0274	-.020	-.050	.0015	-2.2
	-2.11	-.117	.0143	.011	.008	.0025	-2.0	1.30	4.09	-.198	.0320	.033	.111	.0006	-1.7		6.14	.225	.0399	-.031	-.093	.0018	-2.3
	-1.05	-.071	.0119	.009	.002	.0027	-2.0		2.04	-.103	.0230	.018	.077	.0010	-1.8		8.19	.300	.0775	-.041	-.126	.0018	-2.4
	-.52	-.048	.0113	.008	-.001	.0026	-2.1		1.01	-.058	.0206	.011	.057	.0012	-1.9		10.24	.372	.0803	-.051	-.158	.0022	-2.5
	.51	-.006	.0110	.006	-.002	.0026	-2.1		.48	-.033	.0200	.008	.046	.0011	-1.9		12.29	.442	.1074	-.060	-.181	.0026	-2.6
	1.04	.023	.0112	.005	-.005	.0028	-2.1		.52	.014	.0199	.002	.022	.0012	-2.0		14.34	.508	.1393	-.067	-.200	.0029	-2.7
	2.06	.070	.0127	.002	-.001	.0026	-2.1		.99	.036	.0204	-.002	.010	.0013	-2.0		16.39	.578	.1760	-.073	-.235	.0031	-2.8
	4.18	.164	.0191	-.004	-.002	.0026	-2.1		2.04	.082	.0225	-.009	-.010	.0013	-2.1		17.42	.606	.1967	-.076	-.251	.0029	-2.8
	6.29	.270	.0328	-.011	-.003	.0027	-2.1		4.10	.174	.0307	-.023	-.022	.0015	-2.2								
	8.41	.375	.0569	-.014	-.005	.0046	-2.2		6.15	.269	.0451	-.036	-.030	.0013	-2.3	1.90	-4.13	-.150	.0281	.021	.066	.0002	-1.9
	10.52	.461	.0863	-.010	-.112	.0029	-2.3		8.20	.365	.0673	-.050	-.130	.0010	-2.4		-2.04	-.080	.0206	.012	.039	.0005	-1.9
	12.64	.568	.1278	-.017	-.113	.0028	-2.3		10.25	.454	.0950	-.064	-.175	.0008	-2.6		-1.00	-.046	.0186	.007	.025	.0007	-2.0
	14.77	.676	.1780	-.023	-.120	.0038	-2.3		12.31	.542	.1294	-.073	-.211	.0008	-2.7		-.49	-.026	.0182	.004	.017	.0007	-2.0
	16.88	.768	.2310	-.024	-.134	.0035	-2.3		14.37	.626	.1697	-.080	-.235	.0007	-2.7		.47	.009	.0174	0	.001	.0008	-2.0
									16.42	.707	.2157	-.096	-.259	-.0001	-2.8		.99	.027	.0185	-.003	-.006	.0009	-2.1
0.90	-4.22	-.228	.0234	.028	.032	.0008	-2.0		17.44	.746	.2403	-.101	-.271	-.0010	-2.8		2.03	.062	.0199	-.008	-.021	.0010	-2.1
	-2.12	-.122	.0137	.014	.015	.0009	-2.0										4.07	.132	.0264	-.017	-.054	.0012	-2.2
	-1.06	-.073	.0111	.010	.008	.0010	-2.0	1.50	-4.10	-.180	.0299	.028	.081	.0002	-1.8		6.11	.200	.0376	-.026	-.086	.0015	-2.3
	-.52	-.050	.0108	.009	.005	.0010	-2.0		-2.05	-.094	.0215	.015	.050	.0005	-1.9		8.16	.268	.0534	-.035	-.115	.0018	-2.4
	.52	.002	.0098	.007	-.002	.0010	-2.0		-1.01	-.051	.0191	.009	.032	.0007	-2.0		10.20	.333	.0737	-.042	-.142	.0018	-2.5
	1.04	.027	.0101	.006	-.006	.0010	-2.1		-.48	-.029	.0184	.006	.025	.0007	-2.0		12.25	.396	.0961	-.050	-.163	.0024	-2.6
	2.07	.077	.0118	.002	-.015	.0011	-2.1		.47	.014	.0182	0	.004	.0009	-2.0		14.29	.455	.1265	-.055	-.185	.0026	-2.6
	4.20	.179	.0198	-.006	-.032	.0010	-2.1		1.00	.036	.0188	-.003	-.004	.0010	-2.1		16.33	.519	.1598	-.059	-.205	.0029	-2.7
									2.04	.079	.0210	-.010	-.023	.0011	-2.1		17.36	.549	.1788	-.061	-.216	.0031	-2.7

(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.80	-0.224	0.0212	0.023	0.029	0.0061	-4.0	0.90	6.29	0.263	0.0346	-0.003	-0.035	0.0073	-4.1	1.50	2.04	0.074	0.0202	0.007	-0.006	0.0025	-4.1
	-2.11	-.132	.0140	.018	.017	.0061	-4.0		8.42	.366	.0595	-.006	-.040	.0069	-4.1		4.10	.159	.0276	.019	-.040	.0026	-4.2
	-1.06	-.087	.0114	.016	.014	.0060	-4.0		10.53	.465	.0926	-.009	-.046	.0080	-4.2		6.15	.244	.0408	.032	-.075	.0027	-4.3
	-.52	-.063	.0104	.015	.013	.0068	-4.0										8.20	.328	.0600	.043	-.109	.0029	-4.4
	.44	-.019	.0101	.014	.007	.0061	-4.0	1.20	4.11	-.223	.0304	.041	.126	.0038	-3.7		10.26	.408	.0851	.055	-.160	.0029	-4.5
	1.01	.001	.0101	.013	.004	.0060	-4.0		2.05	-.121	.0207	.026	.103	.0041	-3.8		12.31	.486	.1153	.066	-.189	.0034	-4.6
	2.09	.047	.0113	.011	-.003	.0058	-4.1		1.02	-.072	.0180	.018	.097	.0043	-3.8		14.36	.562	.1508	.075	-.214	.0034	-4.7
	4.14	.138	.0159	.007	-.011	.0056	-4.1		.49	-.046	.0173	.012	.098	.0043	-3.8		16.42	.636	.1921	.084	-.240	.0030	-4.8
	6.23	.233	.0257	.002	-.020	.0054	-4.1		.52	.004	.0171	.008	.075	.0041	-3.8		17.45	.672	.2146	.087	-.250	.0020	-4.8
	8.33	.336	.0467	-.003	-.032	.0059	-4.1		1.05	.030	.0177	.004	.064	.0040	-3.9								
	10.44	.445	.0761	-.005	-.059	.0055	-4.2		2.03	.077	.0196	-.003	.048	.0036	-3.9	1.70	-4.09	-.169	.0281	.028	.088	.0013	-3.8
	12.55	.543	.1128	-.003	-.071	.0048	-4.2		4.10	.177	.0277	-.013	.006	.0032	-4.0		-2.04	-.091	.0200	.017	.058	.0017	-3.9
	14.66	.644	.1568	-.003	-.080	.0053	-4.2		6.16	.286	.0427	-.035	-.021	.0030	-4.1		-1.01	-.051	.0178	.011	.040	.0019	-3.9
	16.76	.756	.2137	-.008	-.095	.0084	-4.2		8.23	.390	.0664	-.052	-.061	.0034	-4.2		-.48	-.030	.0172	.008	.030	.0019	-4.0
	17.82	.815	.2463	-.008	-.102	.0085	-4.2		10.29	.493	.0966	-.068	-.110	.0037	-4.4		.52	.009	.0172	.002	.011	.0020	-4.0
									12.36	.601	.1356	-.083	-.159	.0053	-4.5		.99	.029	.0176	-.001	.002	.0021	-4.0
0.80	-4.23	-.234	.0235	.027	.042	.0061	-4.0		14.43	.680	.1769	-.078	-.191	-.0019	-4.6		2.04	.067	.0193	-.006	-.010	.0023	-4.1
	-2.12	-.133	.0145	.020	.028	.0061	-4.0										4.09	.144	.0262	-.018	-.049	.0024	-4.2
	-1.07	-.089	.0119	.017	.020	.0062	-4.0	1.30	4.10	-.206	.0320	.037	.149	.0023	-3.6		6.14	.222	.0384	-.029	-.089	.0027	-4.3
	-.53	-.066	.0109	.017	.016	.0064	-4.0		2.05	-.118	.0227	.022	.119	.0028	-3.7		8.19	.297	.0559	-.039	-.119	.0028	-4.4
	.49	-.020	.0103	.015	.013	.0069	-4.0		1.01	-.069	.0201	.015	.100	.0029	-3.8		10.23	.368	.0783	-.048	-.148	.0032	-4.5
	1.02	.003	.0104	.014	.008	.0063	-4.0		.48	-.041	.0198	.012	.088	.0030	-3.8		12.28	.439	.1055	-.057	-.169	.0035	-4.6
	2.09	.051	.0118	.011	.001	.0063	-4.0		.52	.006	.0191	.005	.066	.0030	-3.9		14.33	.506	.1372	-.065	-.189	.0038	-4.6
	4.17	.148	.0174	.005	-.011	.0061	-4.1		1.00	.027	.0196	.002	.034	.0032	-3.9		16.39	.571	.1740	-.071	-.208	.0040	-4.7
	6.28	.249	.0303	-.002	-.023	.0063	-4.1		2.04	.073	.0216	-.005	.009	.0038	-4.0		17.42	.603	.1942	-.073	-.225	.0039	-4.7
	8.40	.353	.0524	-.006	-.050	.0079	-4.2		4.09	.166	.0892	-.019	-.010	.0032	-4.1								
	10.51	.448	.0817	-.003	-.106	.0059	-4.3		6.15	.261	.0433	-.033	-.050	.0030	-4.2	1.90	-4.08	-.154	.0279	.023	.079	.0011	-3.8
	12.63	.548	.1220	-.009	-.103	.0059	-4.3		8.20	.358	.0643	-.046	-.096	.0026	-4.3		-2.03	-.084	.0202	.014	.049	.0015	-3.9
	14.73	.657	.1711	-.015	-.110	.0059	-4.3		10.25	.446	.0922	-.060	-.142	.0024	-4.5		-1.01	-.048	.0181	.009	.034	.0016	-4.0
	16.89	.774	.2313	-.024	-.128	.0144	-4.3		12.31	.535	.1264	-.072	-.177	.0023	-4.6		-.48	-.029	.0175	.007	.026	.0017	-4.0
	17.94	.821	.2620	-.028	-.140	.0160	-4.4		14.37	.619	.1664	-.083	-.204	.0021	-4.7		.50	.004	.0173	.001	.005	.0017	-4.0
									16.42	.702	.2129	-.093	-.229	.0011	-4.7		.98	.022	.0176	-.001	.001	.0018	-4.0
0.90	-4.25	-.255	.0271	.031	.057	.0062	-3.9		17.45	.741	.2374	-.098	-.241	.0001	-4.8		2.02	.057	.0189	-.006	-.011	.0019	-4.1
	-2.13	-.140	.0164	.023	.038	.0062	-4.0										4.06	.127	.0250	-.015	-.045	.0021	-4.2
	-1.07	-.091	.0136	.020	.038	.0067	-4.0	1.50	-4.10	-.183	.0296	.032	.118	.0015	-3.7		6.11	.195	.0359	-.024	-.078	.0024	-4.3
	-.54	-.066	.0125	.019	.035	.0070	-4.0		-2.04	-.096	.0209	.019	.069	.0020	-3.9		8.15	.262	.0513	-.033	-.109	.0027	-4.4
	.46	-.018	.0119	.017	.028	.0072	-4.0		-1.01	-.055	.0185	.012	.053	.0019	-3.8		10.20	.328	.0712	-.041	-.136	.0028	-4.5
	1.07	.006	.0120	.015	.023	.0071	-4.0		-.48	-.032	.0177	.009	.045	.0022	-3.9		12.24	.390	.0953	-.048	-.158	.0032	-4.5
	2.11	.056	.0135	.012	.005	.0070	-4.0		.52	.010	.0176	.003	.025	.0022	-4.0		14.28	.450	.1230	-.053	-.177	.0034	-4.6
	4.19	.157	.0201	.004	-.015	.0069	-4.1		1.00	.031	.0182	0	.015	.0024	-4.0		16.33	.509	.1562	-.058	-.196	.0036	-4.6
																	17.35	.540	.1745	-.059	-.205	.0038	-4.7

TABLE V.- CONTINUED



(e) Nominal δ, -8°

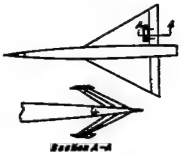
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.22	-0.264	0.0268	0.038	0.053	0.0188	-8.1	0.90	6.16	0.241	0.0354	0.010	0.040	0.0124	-8.1	1.50	4.10	0.147	0.0277	-0.013	-0.004	0.0053	-8.2
	-2.13	-.170	.0181	.033	.031	.0127	-8.1		8.23	.344	.0595	.007	.022	.0116	-8.1		6.15	.232	.0402	-.026	-.045	.0054	-8.3
	-1.09	-.125	.0149	.031	.028	.0131	-8.1		10.28	.452	.0933	0	-.022	.0114	-8.2		8.20	.315	.0587	-.037	-.083	.0052	-8.4
	-.57	-.104	.0138	.031	.026	.0131	-8.1										10.26	.396	.0835	-.049	-.147	.0051	-8.6
	.40	-.061	.0126	.030	.020	.0131	-8.1	1.20	-4.10	-.241	.0348	.052	.190	.0084	-7.6		12.31	.474	.1130	-.059	-.174	.0055	-8.7
	.93	-.037	.0124	.029	.016	.0131	-8.1		-2.05	-.139	.0243	.036	.165	.0087	-7.7		14.36	.549	.1478	-.069	-.193	.0058	-8.7
	2.04	.009	.0131	.027	.007	.0129	-8.1		-1.02	-.091	.0212	.029	.162	.0090	-7.7		16.42	.623	.1882	-.078	-.214	.0050	-8.8
	4.16	.102	.0160	.023	-.007	.0125	-8.2		-.50	-.066	.0202	.026	.157	.0089	-7.7		17.45	.660	.2106	-.081	-.222	.0041	-8.8
	6.13	.196	.0239	.017	-.017	.0122	-8.2		.51	-.017	.0195	.018	.141	.0088	-7.7								
	8.31	.298	.0428	.012	-.034	.0124	-8.2		1.04	.104	.0198	.015	.138	.0086	-7.8	1.70	-4.09	-.179	.0303	.034	.117	.0036	-7.8
	10.41	.407	.0708	.009	-.056	.0120	-8.3		2.09	.608	.0214	.007	.107	.0081	-7.8		-2.04	-.101	.0217	.022	.083	.0041	-7.9
	12.38	.514	.1067	.010	-.071	.0112	-8.3		4.11	.1.58	.0284	-.009	.068	.0075	-8.0		-1.01	-.061	.0192	.016	.066	.0042	-7.9
	14.63	.686	.1512	.010	-.077	.0112	-8.3		6.16	.263	.0426	-.026	.089	.0071	-8.1		-.49	-.041	.0184	.013	.059	.0042	-8.0
	16.76	.789	.2084	.005	-.095	.0142	-8.3		8.23	.373	.0655	-.042	-.012	.0072	-8.2		.51	-.001	.0180	.008	.035	.0044	-8.0
	17.80	.778	.2370	.005	-.103	.0138	-8.3		10.29	.475	.0949	-.058	-.066	.0072	-8.3		1.04	.019	.0183	.004	.026	.0045	-8.1
									12.35	.584	.1331	-.075	-.133	.0084	-8.5		2.03	.058	.0197	-.001	.007	.0045	-8.1
0.80	-4.25	-.269	.0313	.044	.071	.0186	-8.0		14.43	.672	.1683	-.074	-.156	.0027	-8.6		4.09	.135	.0261	-.013	-.008	.0047	-8.2
	-2.14	-.159	.0208	.037	.048	.0125	-8.0										6.14	.212	.0377	-.024	-.066	.0049	-8.4
	-1.09	-.124	.0179	.035	.047	.0130	-8.0	1.30	-4.09	-.218	.0357	.045	.178	.0061	-7.6		8.19	.287	.0544	-.034	-.104	.0048	-8.5
	-.57	-.101	.0168	.034	.045	.0133	-8.0		-2.04	-.124	.0257	.031	.155	.0067	-7.7		10.24	.361	.0769	-.043	-.138	.0051	-8.6
	.50	-.058	.0152	.033	.038	.0135	-8.1		-1.01	-.078	.0227	.024	.143	.0069	-7.7		12.29	.429	.1026	-.052	-.161	.0054	-8.6
	.99	-.035	.0149	.031	.034	.0135	-8.1		-.43	-.055	.0217	.021	.132	.0068	-7.8		14.33	.497	.1340	----	-.178	.0057	-8.7
	2.06	.015	.0153	.029	.017	.0131	-8.1		.46	-.008	.0211	.014	.113	.0067	-7.8		16.39	.562	.1703	-.066	-.196	.0058	-8.8
	4.20	.112	.0193	.023	0	.0132	-8.2		1.04	.016	.0214	.011	.101	.0068	-7.9		17.42	.594	.1903	-.068	-.205	.0055	-8.8
	6.26	.213	.0299	.016	-.015	.0132	-8.2		2.05	.062	.0231	.003	.076	.0066	-7.9								
	8.38	.319	.0509	.011	-.048	.0142	-8.3		4.10	.154	.0301	-.011	.033	.0065	-8.1	1.90	-4.07	-.159	.0296	.028	.097	.0031	-7.9
	10.49	.433	.0792	.011	-.072	.0122	-8.3		6.15	.249	.0434	-.025	-.009	.0061	-8.2		-2.04	-.090	.0217	.019	.066	.0034	-8.0
	12.61	.519	.1177	.006	-.078	.0122	-8.3		8.20	.345	.0643	-.039	-.055	.0056	-8.3		-1.00	-.054	.0194	.013	.051	.0036	-8.0
	14.74	.626	.1644	.001	-.092	.0130	-8.4		10.26	.436	.0913	-.052	-.100	.0051	-8.4		-.48	-.035	.0186	.011	.042	.0036	-8.0
	16.87	.744	.2245	-.009	-.115	.0207	-8.4		12.31	.524	.1249	-.065	-.145	.0049	-8.6		.46	-.001	.0183	.006	.024	.0038	-8.1
	17.92	.789	.2530	-.012	-.122	-.0250	-8.4		14.36	.608	.1639	-.076	-.168	.0046	-8.6		1.03	.017	.0189	.004	.016	.0038	-8.1
									16.42	.690	.2095	-.086	-.191	.0034	-8.7		2.02	.052	.0196	-.001	-.000	.0038	-8.2
0.90	-4.16	-.272	.0335	.045	.146	.0111	-7.8		17.45	.731	.2343	-.090	-.201	.0023	-8.7		4.07	.180	.0252	-.011	-.035	.0041	-8.3
	-2.05	-.163	.0218	.036	.117	.0109	-7.9										6.11	.189	.0354	-.020	-.072	.0042	-8.4
	-1.02	-.113	.0183	.032	.112	.0113	-7.9	1.50	-4.09	-.195	.0320	.038	.170	.0043	-7.6		8.15	.256	.0504	-.029	-.104	.0045	-8.5
	-.51	-.089	.0174	.031	.113	.0117	-7.9		-2.04	-.109	.0229	.025	.126	.0048	-7.8		10.20	.320	.0699	-.036	-.132	.0043	-8.6
	.44	-.043	.0160	.029	.109	.0120	-7.9		-1.01	-.066	.0200	.019	.104	.0050	-7.8		12.23	.384	.0934	-.043	-.153	.0047	-8.6
	.97	-.018	.0164	.028	.104	.0119	-7.9		-.49	-.049	.0191	.016	.091	.0050	-7.9		14.26	.444	.1213	-.042	-.173	.0050	-8.7
	2.08	.035	.0167	.025	.086	.0119	-8.0		.58	-.002	.0186	.009	.065	.0051	-7.9		16.34	.504	.1556	-.053	-.193	.0052	-8.7
	4.15	.139	.0227	.017	.060	.0122	-8.0		1.04	.020	.0191	.006	.059	.0052	-8.0		17.36	.534	.1725	-.055	-.202	.0054	-8.8
									2.04	.063	.0207	0	0	-----	-8.2								

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.24	-0.290	0.0330	0.050	0.098	0.0185	-12.0	0.90	6.29	0.221	0.0393	0.080	0.194	0.0165	-11.7	1.50	4.10	0.138	0.0298	-0.007	0.024	0.0080	-12.1
	-2.15	-.196	.0228	.045	.073	.0176	-12.0		8.41	.325	.0520	.015	.181	.0147	-11.7		6.15	.224	.0419	-.020	-.023	.0060	-12.2
	-1.11	-.155	.0196	.043	.071	.0182	-12.0		10.53	.434	.0952	.007	.119	.0143	-11.9		8.21	.309	.0603	-.032	-.073	.0076	-12.4
	-.59	-.133	.0181	.043	.071	.0186	-12.0										10.26	.390	.0843	-.043	-.118	.0073	-12.5
	.46	-.093	.0163	.042	.067	.0190	-12.0	1.20	-4.10	-.262	.0412	.065	.234	.0134	-11.5		12.31	.469	.1135	-.055	-.154	.0076	-12.6
	.94	-.070	.0158	.042	.061	.0187	-12.0		-2.04	-.160	.0299	.048	.217	.0138	-11.5		14.37	.544	.1481	-.065	-.173	.0077	-12.7
	2.01	-.025	.0156	.040	.050	.0184	-12.1		-1.01	-.111	.0265	.042	.216	.0141	-11.5		16.42	.620	.1886	-.073	-.194	.0070	-12.7
	4.13	.066	.0177	.036	.031	.0182	-12.1		-.50	-.087	.0253	.038	.211	.0141	-11.6		17.45	.658	.2112	-.077	-.202	.0061	-12.8
	6.24	.161	.0249	.031	.014	.0179	-12.1		.50	-.039	.0242	.031	.288	.0140	-11.3								
	8.34	.263	.0408	.025	-.004	.0180	-12.2		1.03	-.011	.0242	.027	.281	.0138	-11.4	1.70	-4.09	-.188	.0336	.039	.158	.0061	-11.7
	10.40	.367	.0666	.023	-.026	.0178	-12.2		2.09	.041	.0253	.019	.259	.0132	-11.4		-2.04	-.109	.0245	.028	.123	.0066	-11.8
	12.50	.466	.1018	.023	-.044	.0170	-12.2		4.11	.142	.0318	.002	---	---	---		-1.01	-.070	.0218	.022	.105	.0068	-11.8
	14.62	.578	.1493	.023	-.058	.0173	-12.3		6.27	.244	.0452	-.015	.173	.0116	-11.7		-.88	---	---	---	---	---	---
	16.74	.686	.1969	.018	-.076	.0194	-12.3		8.23	.357	.0673	-.032	.127	.0115	-11.8		.56	-.011	.0201	.013	.073	.0068	-11.9
	17.80	.740	.2288	.018	-.085	.0193	-12.3		10.29	.463	.0976	-.049	-.018	.0111	-12.2		1.03	.010	.0202	.010	.063	.0069	-12.0
									12.37	.577	.1356	-.068	-.093	.0119	-12.4		2.03	.051	.0215	.004	.043	.0070	-12.0
0.80	-4.26	-.294	.0387	.056	.113	.0173	-11.9										4.09	.127	.0276	-.007	.002	.0071	-12.1
	-2.16	-.195	.0273	.048	.087	.0167	-12.0	1.30	-4.08	-.237	.0413	.056	.224	.0105	-11.5		6.14	.204	.0386	-.018	-.035	.0072	-12.3
	-1.11	-.150	.0235	.045	.087	.0169	-12.0		-2.03	-.140	.0304	.041	.208	.0110	-11.6		8.19	.280	.0548	-.029	-.078	.0070	-12.4
	-.58	-.127	.0223	.043	.086	.0173	-12.0		-1.01	-.096	.0273	.034	.200	.0112	-11.6		10.24	.354	.0767	-.038	-.011	.0072	-12.5
	.47	-.086	.0205	.044	.089	.0177	-12.0		-.50	-.072	.0260	.031	.192	.0112	-11.6		12.29	.422	.1022	-.047	-.014	.0075	-12.6
	.95	-.063	.0208	.043	.080	.0179	-12.0		.46	-.025	.0250	.024	.179	.0112	-11.6		14.34	.492	.1336	-.056	-.018	.0075	-12.7
	2.03	-.014	.0196	.040	.064	.0173	-12.0		1.03	.001	.0251	.020	.170	.0112	-11.7		16.39	.557	.1696	-.062	-.020	.0075	-12.8
	4.17	.082	.0225	.035	.041	.0176	-12.1		2.09	.050	.0264	.013	.140	.0106	-11.7		17.42	.590	.1899	-.065	-.021	.0073	-12.8
	6.35	.184	.0331	---	.021	.0179	-12.1		4.09	.141	.0385	-.002	.091	.0102	-11.9								
	8.36	.290	.0522	.024	-.005	.0187	-12.2		6.16	.237	.0455	-.017	.044	.0010	-12.0	1.90	-4.07	-.168	.0327	.033	.132	.0053	-11.8
	10.48	.392	.0814	.022	-.023	.0193	-12.2		8.21	.334	.0657	-.031	-.001	.0089	-12.2		-2.03	-.098	.0241	.023	.099	.0056	-11.9
	12.59	.486	.1169	.021	-.019	.0183	-12.2		10.26	.427	.0926	-.045	-.055	.0082	-12.3		-1.01	-.062	.0216	.018	.081	.0057	-11.9
	14.73	.610	.1663	.010	-.019	.0244	-12.2		12.31	.517	.1255	-.059	-.114	.0076	-12.5		-.48	-.044	.0208	.016	.073	.0057	-11.9
	16.84	.707	.2192	.005	-.009	.0269	-12.2		14.37	.602	.1644	-.071	-.138	.0069	-12.6		.56	-.006	.0201	.011	.053	.0058	-12.0
	17.90	.754	.2483	.002	.004	.0280	-12.1		16.43	.686	.2099	-.081	-.160	.0057	-12.6		1.02	.010	.0202	.008	.045	.0059	-12.0
									17.45	.726	.2342	-.086	-.170	.0046	-12.6		2.02	.046	.0212	.003	.026	.0059	-12.1
0.90	-4.27	-.293	.0405	.056	.195	.0155	-11.7										4.07	.114	.0265	-.006	-.011	.0060	-12.2
	-2.15	-.185	.0281	.047	.165	.0153	-11.8	1.50	-4.09	.208	.0360	.046	.221	.0077	-11.5		6.11	.183	.0363	-.016	-.052	.0062	-12.3
	-1.10	-.137	.0245	.044	.172	.0157	-11.7		-2.04	.121	.0260	.032	.183	.0080	-11.6		8.16	.250	.0508	-.024	-.088	.0063	-12.4
	-.57	-.113	.0232	.043	.172	.0161	-11.7		-1.01	.078	.0229	.026	.163	.0081	-11.7		10.20	.316	.0700	-.032	-.121	.0061	-12.5
	.44	-.067	.0215	.040	.158	.0163	-11.5		-.49	.056	.0218	.023	.150	.0082	-11.7		12.24	.379	.0929	-.039	-.146	.0066	-12.6
	.98	-.042	.0211	.039	.255	.0163	-11.6		.56	.014	.0210	.017	.130	.0082	-11.8		14.28	.440	.1203	-.045	-.166	.0068	-12.7
	2.06	.009	.0212	.036	---	---	-11.6		1.04	.009	.0213	.013	.119	.0084	-11.8		16.34	.499	.1525	-.049	-.186	.0070	-12.7
	4.21	.111	.0262	.028	.212	.0166	-11.7		2.09	.054	.0229	.007	.096	.0082	-11.9		17.36	.529	.1710	-.051	-.197	.0072	-12.7

NACA

TABLE V.- CONTINUED



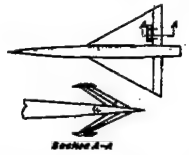
(g) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.312	0.0397	0.060	0.144	0.0819	-15.8
	-2.16	-.217	.0291	.055	.134	.0813	-15.8
	-1.12	-.176	.0253	.054	.134	.0817	-15.8
	-.60	-.156	.0240	.054	.137	.0822	-15.8
	.44	-.117	.0219	.054	.136	.0829	-15.8
	.97	-.096	.0211	.053	.134	.0830	-15.8
	2.03	.051	.0208	.051	.121	.0827	-15.8
	4.10	.242	.0211	.047	.100	.0824	-15.9
	6.23	.138	.0270	.043	.081	.0823	-15.9
	8.33	.238	.0418	.037	.059	.0823	-15.9
	10.43	.342	.0665	.034	.036	.0822	-16.0
	12.49	.441	.0986	.034	.016	.0819	-16.0
	14.60	.545	.1406	.034	.001	.0822	-16.0
	16.73	.668	.1843	.030	-.014	.0840	-16.3
	17.78	.714	.2137	.089	-.023	.0837	-16.3
0.80	-4.27	-.308	.0456	.063	.129	.0184	-15.8
	-2.17	-.212	.0340	.057	.122	.0194	-15.8
	-1.12	-.168	.0302	.056	.123	.0197	-15.8
	-.59	-.145	.0283	.054	.122	.0199	-15.8
	.45	-.105	.0263	.054	.123	.0805	-15.8
	.94	-.080	.0256	.052	.119	.0803	-15.8
	2.01	-.034	.0247	.049	.105	.0802	-15.8
	4.16	.063	.0267	.045	.087	.0207	-15.9
	6.28	.165	.0361	.039	.069	.0808	-15.9
	8.40	.273	.0549	.032	.041	.0211	-16.0
	10.48	.378	.0833	.028	.016	.0221	-16.0
	12.59	.471	.1185	.029	.016	.0805	-16.0
	14.72	.591	.1670	.019	.024	.0265	-16.0
	16.85	.697	.2215	.013	.027	.0883	-16.0
	17.90	.741	.2491	.010	.029	.0890	-16.0
0.90	-4.28	-.310	.0489	.066	.236	.0183	-15.5
	-2.16	-.205	.0355	.058	.222	.0185	-15.5
	-1.11	-.156	.0312	.054	.212	.0189	-15.5
	-.58	-.133	.0294	.053	.208	.0191	-15.6
	.47	-.089	.0276	.051	.201	.0194	-15.6
	.96	-.064	.0270	.050	.196	.0196	-15.6
	2.04	-.014	.0267	.047	.178	.0196	-15.6
	4.21	.091	.0304	.039	.152	.0197	-15.7
0.90	6.33	0.204	0.0429	0.030	0.128	0.0194	-15.7
	8.41	.310	.0646	.024	.109	.0171	-15.8
	10.53	.419	.0973	.017	.087	.0165	-15.8
1.20	-4.10	-.278	.0472	.076	.243	.0167	-15.4
	-2.04	-.178	.0354	.059	.207	.0174	-15.2
	-1.01	-.131	.0317	.052	.206	.0178	-15.2
	-.50	-.106	.0303	.049	.202	.0179	-15.2
	.49	-.056	.0289	.041	.287	.0178	-15.2
	2.08	.022	.0293	.030	.262	.0171	-15.3
	4.16	.126	.0334	.013	.217	.0160	-15.4
	6.17	.230	.0482	-.005	.160	.0152	-15.6
	8.23	.338	.0697	-.022	.117	.0150	-15.7
	10.30	.448	.0992	-.040	.038	.0143	-15.9
	12.36	.563	.1371	-.060	.132	.0147	-15.7
1.30	-4.09	-.249	.0473	.065	.276	.0140	-15.2
	-2.04	-.156	.0366	.051	.244	.0148	-15.3
	-1.01	-.112	.0330	.044	.238	.0150	-15.4
	-.50	-.088	.0315	.040	.233	.0150	-15.4
	.50	-.043	.0301	.034	.218	.0150	-15.4
	1.03	-.017	.0300	.030	.213	.0150	-15.4
	2.08	.033	.0300	.023	.183	.0145	-15.5
	4.11	.127	.0362	.007	.131	.0139	-15.7
	6.16	.221	.0485	-.006	.081	.0131	-15.8
	8.23	.318	.0680	-.023	.031	.0122	-16.0
	10.28	.415	.0946	-.038	-.026	.0111	-16.1
	12.34	.507	.1273	-.052	-.084	.0100	-16.3
	14.40	.595	.1667	-.065	-.105	.0092	-16.4
	16.46	.677	.2111	-.076	-.122	.0075	-16.4
	17.48	.708	.2330	-.076	-.127	.0093	-16.4
1.50	-4.09	-.218	.0423	.054	.217	.0108	-15.4
	-2.04	-.134	.0319	.040	.193	.0111	-15.5
	-1.01	-.091	.0285	.034	.182	.0113	-15.5
	-.50	-.069	.0272	.031	.172	.0112	-15.5
	.50	-.026	.0259	.024	.153	.0111	-15.6
	1.03	-.004	.0261	.021	.144	.0113	-15.6
	2.09	.043	.0271	.014	.117	.0110	-15.7
	4.10	.127	.0328	0	.065	.0106	-15.8
1.50	6.14	0.184	0.0420	-0.009	0.031	0.0105	-16.0
	8.21	.296	.0616	-.025	-.027	.0100	-16.1
	10.26	.379	.0851	-.037	-.061	.0099	-16.3
	12.32	.460	.1142	-.049	-.125	.0096	-16.4
	14.37	.536	.1483	-.060	-.145	.0094	-16.5
	16.43	.611	.1883	-.069	-.167	.0085	-16.6
	17.46	.649	.2106	-.073	-.175	.0075	-16.6
1.70	-4.09	-.197	.0386	.045	.210	.0085	-15.4
	-2.04	-.118	.0286	.034	.170	.0090	-15.5
	-1.01	-.081	.0254	.028	.150	.0090	-15.6
	-.49	-.060	.0243	.025	.138	.0090	-15.6
	.51	-.020	.0232	.019	.116	.0090	-15.7
	1.03	.008	.0232	.016	.106	.0091	-15.7
	2.06	.042	.0240	.010	.085	.0092	-15.8
	4.09	.118	.0294	-.002	.040	.0092	-15.9
	6.14	.195	.0395	-.013	-.008	.0092	-16.1
	8.19	.272	.0577	-.024	-.081	.0088	-16.3
	10.24	.346	.0773	-.034	-.128	.0089	-16.4
	12.29	.416	.1028	-.043	-.156	.0091	-16.5
	14.34	.484	.1334	-.052	-.177	.0092	-16.6
	16.39	.551	.1691	-.059	-.194	.0091	-16.6
	17.42	.583	.1889	-.061	-.204	.0088	-16.7
1.90	-4.08	-.177	.0361	.038	.166	.0072	-15.6
	-2.03	-.107	.0271	.028	.132	.0076	-15.7
	-1.01	-.073	.0245	.023	.114	.0076	-15.7
	-.49	-.054	.0234	.021	.124	.0077	-15.7
	.50	-.018	.0225	.016	.086	.0077	-15.8
	1.02	.001	.0224	.013	.077	.0079	-15.8
	2.07	.037	.0231	.008	.057	.0078	-15.9
	4.08	.106	.0277	-.002	.017	.0079	-16.0
	6.12	.175	.0372	-.012	-.025	.0079	-16.1
	8.17	.243	.0511	-.021	-.065	.0080	-16.2
	10.21	.309	.0698	-.029	-.100	.0078	-16.4
	12.26	.373	.0925	-.036	-.132	.0082	-16.4
	14.31	.435	.1200	-.042	-.155	.0084	-16.5
	16.36	.495	.1521	-.046	-.176	.0086	-16.6
	17.38	.525	.1703	-.048	-.186	.0089	-16.6

(h) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.319	0.0455	0.064	0.181	0.0226	-19.7
	-2.17	-.231	.0349	.061	.179	.0236	-19.7
	-1.13	-.191	.0310	.060	.181	.0241	-19.7
	-.61	-.169	.0295	.059	.181	.0240	-19.7
	.43	-.131	.0270	.059	.179	.0248	-19.7
	.96	-.113	.0263	.060	.178	.0256	-19.7
	1.96	-.071	.0251	.059	.172	.0257	-19.7
	4.08	.021	.0250	.055	.149	.0254	-19.8
	6.21	.115	.0300	.050	.133	.0252	-19.8
	8.32	.217	.0440	.043	.110	.0252	-19.9
	10.43	.323	.0674	.042	.091	.0252	-19.9
	12.54	.429	.1003	.042	.070	.0250	-19.9
	14.59	.524	.1398	.042	.038	.0263	-19.9
	16.74	.661	.1993	.042	.043	.0277	-20.0
	17.80	.711	.2268	.041	.035	.0277	-20.0
0.80	-4.26	-.316	.0502	.066	.198	.0197	-19.6
	-2.17	-.218	.0378	.060	.188	.0206	-19.6
	-1.12	-.174	.0336	.058	.185	.0210	-19.6
	-.59	-.149	.0320	.056	.184	.0210	-19.6
	.45	-.110	.0297	.055	.179	.0213	-19.6
	.93	-.085	.0288	.054	.174	.0213	-19.7
	2.00	.040	.0278	.052	.163	.0214	-19.7
	4.15	.056	.0292	.047	.142	.0219	-19.7
	6.28	.158	.0382	.040	.115	.0218	-19.8
	8.40	.265	.0572	.035	.080	.0221	-19.9
	10.47	.370	.0860	.032	.019	.0231	-20.0
	12.59	.463	.1197	.031	.005	.0203	-20.0
	14.73	.604	.1740	.024	.012	.0267	-20.0
	16.87	.711	.2296	.018	.009	.0280	-20.0
	17.93	.757	.2577	.014	.007	.0287	-20.0
0.90	-4.29	-.319	.0550	.071	.250	.0195	-19.4
	-2.17	-.216	.0421	.063	.249	.0208	-19.5
	-1.11	-.168	.0375	.060	.242	.0207	-19.5
	-.59	-.144	.0360	.058	.239	.0214	-19.5
	.46	-.101	.0337	.056	.232	.0220	-19.5
	.95	-.076	.0324	.055	.220	.0217	-19.5
	2.02	-.028	.0321	.052	.210	.0221	-19.5
0.90	4.19	0.076	0.0339	0.045	0.171	0.0222	-19.6
	6.32	.189	.0453	.035	.134	.0214	-19.7
	8.45	.298	.0666	.029	.094	.0185	-19.8
	10.52	.399	.0978	.025	.052	.0186	-19.8
	12.67	.529	.1421	.018	.018	.0180	-19.9
1.20	-4.05	-.291	.0524	.111	.359	.0193	-19.0
	-1.99	-.192	.0406	.095	.343	.0203	-19.1
	-1.01	-.143	.0371	.089	.346	.0208	-19.1
	-.50	-.120	.0358	.085	.343	.0210	-19.1
	.53	-.071	.0342	.078	.333	.0212	-19.1
	1.06	-.046	.0338	.074	.328	.0212	-19.1
	2.12	.007	.0342	.066	.308	.0206	-19.2
	4.17	.111	.0398	.021	.257	.0195	-19.3
	6.17	.216	.0521	.003	.205	.0185	-19.3
	8.23	.324	.0732	-.015	.168	.0165	-19.6
	10.30	.435	.1013	-.033	.099	.0173	-19.8
	12.38	.552	.1391	-.052	-.002	.0173	-20.1
1.30	-4.09	-.268	.0529	.073	.315	.0174	-19.1
	-2.04	-.170	.0417	.058	.299	.0179	-19.2
	-1.01	-.124	.0377	.051	.293	.0183	-19.2
	-.50	-.101	.0361	.048	.287	.0183	-19.2
	.49	-.056	.0345	.042	.274	.0184	-19.2
	1.02	-.031	.0344	.038	.270	.0185	-19.3
	2.08	.020	.0346	.030	.235	.0177	-19.4
	4.16	.115	.0398	.014	.178	.0170	-19.5
	6.17	.209	.0513	-.001	.129	.0161	-19.7
	8.23	.305	.0704	-.016	.083	.0150	-19.8
	10.28	.401	.0961	-.031	.018	.0135	-20.0
	12.34	.496	.1287	-.046	-.057	.0125	-20.2
	14.40	.583	.1670	-.059	-.087	.0114	-20.3
	17.49	.699	.2332	-.071	-.108	.0112	-20.4
1.50	-4.08	-.229	.0476	.060	.246	.0138	-19.3
	-2.04	-.144	.0371	.047	.212	.0141	-19.4
	-1.01	-.103	.0336	.040	.199	.0143	-19.4
	-.50	-.080	.0321	.037	.190	.0144	-19.5
	.50	-.038	.0307	.031	.176	.0143	-19.5
1.50	1.03	0.016	0.0308	0.026	0.175	0.0146	-19.5
	2.08	.031	.0313	.020	.141	.0140	-19.6
	4.10	.116	.0361	.006	.082	.0134	-19.8
	6.16	.202	.0470	-.007	.034	.0132	-19.9
	8.21	.285	.0640	-.019	-.011	.0126	-20.1
	10.27	.371	.0669	-.032	-.068	.0120	-20.3
	12.32	.452	.1153	-.044	-.103	.0117	-20.4
	14.37	.528	.1489	-.055	-.125	.0113	-20.4
	16.43	.603	.1886	-.064	-.141	-.0134	-20.5
	17.46	.642	.2107	-.068	-.150	-.0124	-20.5
1.70	-4.08	-.206	.0436	.052	.236	.0113	-19.3
	-2.03	-.129	.0334	.040	.205	.0116	-19.4
	-1.01	-.091	.0301	.034	.187	.0117	-19.5
	-.50	-.071	.0288	.031	.175	.0116	-19.5
	.50	-.030	.0274	.025	.153	.0117	-19.6
	1.03	-.010	.0277	.022	.127	.0117	-19.7
	2.08	-.032	.0285	.016	.100	.0117	-19.7
	4.09	.110	.0332	.003	.043	.0114	-19.9
	6.14	.188	.0432	-.008	-.010	.0114	-20.1
	8.19	.263	.0584	-.019	-.058	.0111	-20.2
	12.29	.410	.1044	-.039	-.131	.0110	-20.5
	14.34	.479	.1338	-.047	—	.0109	-20.6
	16.40	.547	.1707	-.054	-.189	.0105	-20.6
	17.43	.579	.1903	-.057	-.198	.0111	-20.7
1.90	-4.08	-.185	.0410	.044	.210	.0095	-19.4
	-2.03	-.115	.0316	.034	.174	.0097	-19.5
	-1.01	-.080	.0286	.029	.157	.0097	-19.6
	-.49	-.062	.0275	.026	.147	.0098	-19.6
	.50	-.026	.0261	.021	.125	.0098	-19.7
	1.02	-.007	.0259	.018	.114	.0098	-19.7
	2.06	.028	.0263	.013	.092	.0098	-19.8
	4.06	.098	.0305	—	.046	.0098	-19.9
	6.12	.167	.0393	-.007	-.006	.0098	-20.1
	8.17	.235	.0528	-.016	-.048	.0098	-20.2
	10.21	.300	.0706	-.024	-.091	.0098	-20.3
	14.31	.426	.1204	-.036	-.170	.0100	-20.6
	16.36	.490	.1530	-.043	-.195	.0101	-20.6

TABLE V.- CONCLUDED



(i) Nominal δ, -24°

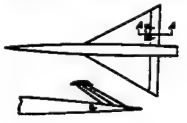
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.323	0.0504	0.065	0.213	0.0227	-23.8	0.90	6.32	0.181	0.0504	0.038	0.154	0.0228	-23.8	1.50	4.15	0.106	0.0397	0.011	0.113	0.0157	-23.8
	-2.18	-.234	.0395	.061	.208	.0238	-23.8		8.45	.295	.0710	.029	.099	.0187	-23.9		6.16	.191	.0497	-.002	.080	.0154	-24.0
	-1.13	-.192	.0356	.060	.209	.0242	-23.8		10.52	.399	.1018	.065	.085	.0186	-23.9		8.21	.275	.0664	-.014	.025	.0148	-24.1
	-.61	-.169	.0338	.059	.211	.0243	-23.8										10.27	.360	.0891	-.027	-.047	.0141	-24.3
	.43	-.129	.0314	.058	.204	.0245	-23.8	1.20	-4.10	-.304	.0588	.088	.376	.0214	-23.1		12.32	.443	.1166	-.040	-.083	.0134	-24.4
	.96	-.109	.0307	.057	.205	.0247	-23.8		-2.04	-.204	.0464	.072	.361	.0225	-23.1		14.37	.520	.1502	-.051	-.108	.0129	-24.5
	1.96	-.069	.0297	.057	.204	.0253	-23.8		-1.01	-.156	.0427	.064	.361	.0229	-23.1		16.43	.596	.1897	-.060	-.130	.0119	-24.5
	4.08	.021	.0297	.054	.181	.0257	-23.8		-.50	-.131	.0413	.061	.359	.0230	-23.1		17.46	.633	.2113	-.064	-.135	.0109	-24.6
	6.21	.114	.0347	.050	.163	.0258	-23.9		.48	-.083	.0396	.054	.351	.0235	-23.2								
	8.31	.215	.0485	.043	.139	.0259	-23.9		1.00	-.059	.0392	.050	.347	.0236	-23.2	1.70	-4.08	-.216	.0494	.037	.238	.0136	-23.4
	10.42	.319	.0718	.042	.124	.0258	-23.9		2.06	-.007	.0391	.043	.331	.0232	-23.2		-2.03	-.139	.0384	.045	.204	.0137	-23.5
	12.53	.419	.1043	.043	.101	.0254	-24.0		4.16	.110	.0435	.025	.272	.0211	-23.4		-1.01	-.100	.0349	.039	.182	.0139	-23.6
	14.59	.522	.1442	.043	.089	.0265	-24.0		6.17	.204	.0553	.008	.226	.0211	-23.5		-.50	-.080	.0335	.035	.170	.0138	-23.6
	16.71	.630	.1948	.041	.073	.0280	-24.0		8.23	.318	.0799	-.010	.187	.0211	-23.6		.49	-.040	.0320	.029	.145	.0137	-23.7
	17.76	.680	.2219	.041	.063	.0280	-24.0		10.30	.424	.1040	-.027	.131	.0198	-23.8		1.02	-.020	.0319	.026	.135	.0138	-23.7
									12.37	.542	.1411	-.046	.060	.0199	-24.0		2.07	.021	.0324	.021	.123	.0139	-23.8
0.80	-4.28	-.319	.0560	.068	.263	.0204	-23.6		14.44	.665	.1733	-.035	.046	.0140	-24.0		4.09	.100	.0363	.009	.089	.0134	-24.0
	-2.18	-.224	.0441	.063	.257	.0218	-23.6										6.14	.176	.0477	-.003	-.002	.0133	-24.2
	-1.13	-.180	.0399	.061	.253	.0221	-23.6	1.30	-4.09	-.273	.0582	.077	.329	.0196	-23.2		8.19	.251	.0605	-.014	-.049	.0129	-24.3
	-.60	-.157	.0380	.059	.248	.0222	-23.6		-2.04	-.180	.0467	.063	.316	.0205	-23.2		10.24	.325	.0803	-.024	-.081	.0127	-24.4
	.45	-.115	.0356	.058	.242	.0227	-23.6		-1.01	-.135	.0427	.056	.306	.0207	-23.3		12.29	.400	.1058	-.034	-.107	.0127	-24.5
	.93	-.092	.0348	.057	.238	.0228	-23.6		-.50	-.118	.0412	.053	.300	.0208	-23.3		14.34	.467	.1346	-.043	-.137	.0125	-24.6
	1.99	-.050	.0343	.057	.207	.0233	-23.7		.48	-.068	.0395	.047	.288	.0211	-23.3		16.39	.535	.1696	-.049	-.161	.0124	-24.6
	4.14	.062	.0353	.053	.171	.0241	-23.8		1.01	-.044	.0391	.043	.285	.0212	-23.3		17.42	.569	.1893	-.053	-.173	.0119	-24.7
	6.27	.149	.0430	.044	.135	.0233	-23.9		2.07	.007	.0387	.034	.246	.0202	-23.4								
	8.40	.261	.0620	.037	.110	.0233	-23.9		4.16	.105	.0432	.018	.176	.0192	-23.6	1.90	-4.08	-.193	.0483	-.048	.232	.0117	-23.5
	10.48	.372	.0898	.031	.068	.0229	-24.0		6.27	.199	.0544	.004	.130	.0185	-23.8		-2.03	-.123	.0379	.038	.196	.0118	-23.6
	12.59	.472	.1244	.028	.025	.0188	-24.1		8.22	.295	.0734	-.011	.103	.0175	-23.8		-1.01	-.088	.0345	.033	.179	.0118	-23.6
	14.73	.596	.1749	.017	.002	.0253	-24.1		10.28	.393	.0994	-.026	.050	.0159	-24.0		-.50	-.071	.0331	.030	.170	.0118	-23.6
	16.85	.695	.2273	.013	.005	.0271	-24.2		12.34	.487	.1313	-.041	-.008	.0144	-24.2		.49	-.036	.0312	.026	.149	.0118	-23.7
	17.91	.748	.2583	.008	.015	.0278	-24.2		14.40	.577	.1692	-.055	-.047	.0130	-24.3		1.02	-.017	.0305	.023	.135	.0117	-23.7
									16.46	.661	.2139	-.066	-.072	.0117	-24.4		2.06	.020	.0303	.017	.107	.0118	-23.8
0.90	-4.30	-.330	.0623	.076	.280	.0213	-23.5		17.49	.694	.2354	-.069	-.091	.0127	-24.4		4.08	.091	.0336	.007	.046	.0115	-24.0
	-2.18	-.228	.0486	.068	.274	.0226	-23.5										6.13	.160	.0420	-.002	-.013	.0115	-24.2
	-1.12	-.179	.0441	.065	.270	.0231	-23.5	1.50	-4.09	-.240	.0535	.066	.282	.0163	-23.3		8.17	.227	.0551	-.012	-.061	.0116	-24.3
	-.60	-.155	.0422	.063	.261	.0231	-23.5		-2.04	-.155	.0419	.052	.249	.0164	-23.4		10.21	.292	.0727	-.020	-.104	.0116	-24.5
	.45	-.114	.0400	.061	.262	.0238	-23.5		-1.01	-.113	.0382	.045	.236	.0166	-23.4		12.26	.361	.0952	-.028	-.125	.0114	-24.5
	.93	-.090	.0394	.061	.263	.0243	-23.5		-.50	-.091	.0366	.042	.226	.0166	-23.5		14.31	.422	.1217	-.034	-.137	.0114	-24.6
	2.01	-.043	.0383	.056	.252	.0248	-23.5		.49	-.049	.0349	.036	.211	.0166	-23.5		16.36	.483	.1537	-.039	-.180	.0115	-24.7
	4.18	.063	.0401	.050	.215	.0245	-23.6		1.02	-.026	.0348	.033	.206	.0167	-23.5		17.38	.513	.1715	-.041	-.190	.0116	-24.7
									2.07	.008	.0351	.026	.182	.0165	-23.6								

(j) Nominal δ, -28°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.320	0.0553	0.065	0.249	0.0235	-27.7	0.90	6.31	0.171	0.0551	0.043	0.165	0.0245	-27.8	1.50	4.16	0.101	0.0428	0.014	0.086	0.0176	-27.9
	-2.17	-.232	.0449	.062	.241	.0244	-27.7		8.45	.293	.0754	.030	.108	.0215	-27.9		6.16	.187	.0526	0	.030	.0174	-28.1
	-1.13	-.188	.0406	.060	.242	.0248	-27.7		10.52	.394	.1044	.028	.087	.0187	-27.9		8.22	.270	.0695	-.011	.019	.0168	-28.1
	-.61	-.168	.0390	.060	.238	.0250	-27.7										10.27	.356	.0924	-.023	.024	.0164	-28.2
	.44	-.126	.0363	.058	.232	.0251	-27.7	1.20	-4.10	-.312	.0659	.093	.335	.0232	-27.0		12.33	.435	.1193	-.035	.047	.0155	-28.3
	.96	-.106	.0355	.058	.229	.0253	-27.7		-2.04	-.211	.0534	.077	.282	.0244	-27.1		14.38	.515	.1568	-.047	.077	.0147	-28.4
	1.97	-.065	.0343	.057	.221	.0255	-27.8		-1.01	-.164	.0496	.070	.286	.0250	-27.0		16.44	.589	.1914	-.056	.114	.0136	-28.5
	4.08	.021	.0344	.055	.199	.0261	-27.8		-.50	-.139	.0481	.066	.283	.0251	-27.1		17.47	.628	.2134	-.060	.124	.0126	-28.5
	6.21	.113	.0394	.051	.182	.0267	-27.8		.48	-.091	.0461	.059	.271	.0255	-27.1								
	8.31	.217	.0530	.044	.148	.0266	-27.9		1.00	-.067	.0459	.056	.267	.0259	-27.1	1.70	-4.08	-.222	.0549	.060	.243	.0155	-27.4
	10.43	.325	.0770	.042	.134	.0259	-27.9		2.06	-.016	.0452	.049	.247	.0257	-27.2		-2.04	-.145	.0435	.048	.211	.0156	-27.5
	12.53	.423	.1086	.041	.107	.0187	-28.0		4.16	.093	.0484	.029	.207	.0238	-27.4		-1.01	-.107	.0397	.042	.189	.0156	-27.6
	14.60	.530	.1495	.040	.094	.0259	-28.0		6.17	.197	.0596	.011	.218	.0231	-27.5		-.50	-.087	.0382	.039	.176	.0156	-27.6
	16.70	.631	.1981	.038	.084	.0272	-28.0		8.24	.307	.0800	-.007	.192	.0231	-27.6		.49	-.048	.0367	.038	.159	.0156	-27.7
	17.76	.684	.2264	.038	.070	.0266	-28.0		10.30	.417	.1076	-.024	.142	.0218	-27.7		1.01	-.028	.0362	.030	.150	.0155	-27.7
									12.37	.538	.1445	-.041	.080	.0231	-27.9		2.06	.013	.0363	.024	.137	.0156	-27.7
0.80	-4.28	-.318	.0607	.069	.311	.0215	-27.5										4.15	.093	.0400	.012	.061	.0151	-28.0
	-2.17	-.222	.0491	.064	.304	.0227	-27.5	1.30	-4.08	-.279	.0644	.088	.330	.0218	-27.2		6.14	.169	.0489	0	.000	.0151	-28.1
	-1.12	-.179	.0448	.062	.302	.0231	-27.5		-2.04	-.186	.0588	.067	.319	.0229	-27.2		8.20	.245	.0636	-.010	-.035	.0148	-28.3
	-.60	-.159	.0439	.061	.302	.0235	-27.5		-1.01	-.141	.0489	.060	.310	.0230	-27.2		10.25	.320	.0889	-.020	-.062	.0144	-28.3
	.45	-.114	.0397	.058	.279	.0232	-27.5		-.49	-.117	.0470	.057	.301	.0230	-27.3		12.30	.398	.1070	-.030	-.086	.0144	-28.4
	.93	-.091	.0394	.057	.277	.0235	-27.5		.48	-.072	.0447	.050	.285	.0233	-27.3		14.35	.460	.1363	-.039	-.115	.0141	-28.5
	1.99	-.049	.0390	.057	.262	.0240	-27.6		1.01	-.049	.0444	.046	.280	.0233	-27.3		16.40	.527	.1712	-.046	-.149	.0139	-28.6
	4.13	.039	.0398	.053	.241	.0252	-27.6		2.06	-.001	.0437	.038	.245	.0227	-27.4		17.43	.561	.1902	-.049	-.160	.0134	-28.6
	6.27	.147	.0470	.044	.183	.0238	-27.7		4.16	.100	.0471	.021	.161	.0211	-27.7								
	8.40	.262	.0661	.035	.146	.0232	-27.8		6.17	.193	.0580	.007	.131	.0207	-27.8	1.90	-4.07	-.201	.0522	.032	.264	.0138	-27.4
	10.48	.373	.0927	.028	.096	.0225	-27.9		8.23	.289	.0766	-.007	.104	.0194	-27.8		-2.03	-.131	.0414	.042	.210	.0136	-27.5
	12.60	.479	.1270	.025	.052	.0180	-28.0		10.29	.389	.1016	-.023	.053	.0177	-28.0		-1.01	-.095	.0377	.037	.186	.0135	-27.6
	14.73	.601	.1758	.014	.044	.0235	-28.1		12.35	.479	.1337	-.037	.007	.0164	-28.1		-.50	-.077	.0362	.034	.176	.0134	-27.6
	16.85	.696	.2277	.012	.023	.0252	-28.1		14.40	.568	.1715	-.051	-.018	.0149	-28.2		.49	-.042	.0343	.029	.149	.0134	-27.7
	17.91	.742	.2597	.010	-.032	.0267	-28.2		16.47	.653	.2158	-.062	-.054	.0133	-28.3		1.01	-.024	.0338	.026	.135	.0134	-27.7
									17.49	.687	.2377	-.065	-.070	.0143	-28.4		2.05	.012	.0330	.021	.105	.0131	-27.8
0.90	-4.30	-.335	.0691	.079	.309	.0224	-27.4										4.13	.084	.0373	.011	.049	.0131	-28.0
	-2.18	-.236	.0563	.073	.296	.0247	-27.4	1.50	-4.09	-.245	.0582	.068	.269	.0179	-27.3		6.13	.151	.0452	.001	-.006	.0129	-28.2
	-1.13	-.187	.0505	.069	.290	.0246	-27.5		-2.04	-.161	.0468	.055	.243	.0182	-27.4		8.17	.219	.0578	-.008	-.049	.0128	-28.3
	-.60	-.162	.0487	.067	.291	.0245	-27.4		-1.01	-.119	.0430	.049	.227	.0183	-27.4		10.22	.285	.0742	-.016	-.092	.0127	-28.4
	.45	-.120	.0462	.065	.282	.0251	-27.5		-.50	-.097	.0411	.045	.217	.0182	-27.5		12.26	.350	.0961	-.024	-.116	.0127	-28.5
	.93	-.096	.0452	.064	.284	.0256	-27.5		.49	-.055	.0392	.039	.200	.0183	-27.5		14.31	.411	.1224	-.030	-.139	.0128	-28.6
	2.00	-.049	.0441	.062	.271	.0257	-27.5		1.02	-.033	.0391	.036	.197	.0184	-27.5		16.36	.472	.1536	-.034	-.165	.0129	-28.7
	4.17	.052	.0453	.054	.226	.0260	-27.6		2.07	.012	.0389	.028	.164	.0181	-27.6		17.39	.501	.1712	-.036	-.174	.0129	-28.7

NACA

TABLE VI.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 38-PERCENT-SPAN PADDLE BALANCE MOUNTED ON THE UPPER SURFACE OF THE FLAP. DATA FOR ONE FLAP. $R = 4.4 \times 10^6$



(a) Nominal δ, 2°

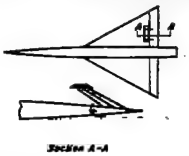
M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.16	-0.168	0.0159	-0.003	0.013	-0.0015	2.0
	-2.06	-.075	.0103	-.007	.001	-.0015	2.0
	-1.06	-.030	.0087	-.010	-.004	-.0015	1.9
	-.31	-.008	.0083	-.010	-.007	-.0015	1.9
	.69	.038	.0086	-.011	-.013	-.0015	1.9
	1.01	.061	.0093	-.012	-.015	-.0015	1.9
	2.09	.106	.0114	-.014	-.022	-.0015	1.9
	4.17	.197	.0182	-.018	-.035	-.0016	1.9
	6.27	.295	.0321	-.023	-.047	-.0017	1.9
	8.38	.397	.0491	-.027	-.062	-.0014	1.8
	10.47	.498	.0638	-.028	-.076	-.0014	1.8
	12.59	.600	.1230	-.029	-.137	-.0015	1.7
	14.68	.695	.1695	-.029	-.187	-.0013	1.7
	16.81	.816	.2295	-.029	-.197	.0001	1.6
	17.86	.864	.2601	-.028	-.207	.0002	1.6
0.80	-4.20	-.174	.0172	-.001	.014	-.0048	2.0
	-2.08	-.076	.0106	-.007	-.001	-.0047	1.9
	-1.06	-.028	.0090	-.010	-.009	-.0047	1.9
	-.28	-.006	.0086	-.011	-.013	-.0046	1.9
	.50	.041	.0090	-.013	-.020	-.0045	1.9
	1.64	.069	.0099	-.014	-.023	-.0045	1.9
	2.10	.111	.0121	-.016	-.032	-.0045	1.9
	4.20	.207	.0202	-.022	-.049	-.0046	1.8
	6.32	.315	.0359	-.030	-.068	-.0046	1.8
	8.45	.426	.0625	-.036	-.087	-.0045	1.8
	10.56	.500	.0912	-.027	-.136	-.0032	1.7
	12.67	.604	.1332	-.034	-.176	-.0029	1.6
	14.79	.712	.1834	-.039	-.202	-.0031	1.5
	16.93	.836	.2479	-.050	-.222	.0061	1.5
	17.98	.877	.2766	-.050	-.239	.0078	1.4
0.90	-4.22	-.186	.0192	.002	-.001	-.0048	1.9
	-2.10	-.083	.0111	-.006	-.017	-.0047	1.9
	-1.07	-.033	.0095	-.011	-.025	-.0047	1.9
0.90	-0.53	0.008	0.0092	-0.018	0.030	-0.0047	1.9
	.50	.042	.0096	-.014	-.039	-.0044	1.9
	1.04	.087	.0104	-.015	-.041	-.0044	1.9
	2.11	.117	.0130	-.185	-.052	-.0044	1.8
	4.23	.222	.0224	-.027	-.073	-.0042	1.8
	6.35	.331	.0397	-.035	-.089	-.0049	1.7
	8.47	.426	.0644	-.033	-.123	-.0031	1.7
	10.59	.526	.0992	-.040	-.173	-.0023	1.5
1.20	-4.11	-.203	.0267	.028	-.009	-.0016	1.9
	-2.05	-.102	.0178	.012	-.037	-.0015	1.8
	-1.02	-.053	.0154	.005	-.060	-.0016	1.8
	-.49	-.028	.0148	.001	-.070	-.0016	1.7
	.47	.022	.0149	-.006	-.094	-.0016	1.7
	1.00	.048	.0157	-.010	-.103	-.0016	1.7
	2.04	.098	.0181	-.017	-.125	-.0017	1.6
	4.10	.197	.0270	-.033	-.163	-.0020	1.5
	6.16	.300	.0429	-.049	-.199	-.0021	1.4
	8.22	.407	.0672	-.067	-.245	-.0016	1.3
1.30	-2.05	-.095	.0200	.018	-.010	-.0019	1.9
	-1.01	-.049	.0177	.005	-.035	-.0018	1.8
	-.48	-.025	.0171	.002	-.046	-.0016	1.8
	.47	.022	.0171	-.005	-.069	-.0015	1.7
	1.00	.044	.0179	-.008	-.081	-.0013	1.7
	2.04	.092	.0203	-.015	-.107	-.0014	1.6
	4.10	.184	.0289	-.029	-.149	-.0010	1.5
	6.21	.278	.0443	-.043	-.188	-.0009	1.4
	8.21	.373	.0680	-.058	-.232	-.0009	1.3
	10.27	.464	.1035	-.072	-.284	-.0011	1.1
1.50	-4.10	-.174	.0265	.024	.030	-.0019	2.0
	-2.05	-.087	.0183	.011	-.007	-.0016	1.9
	-1.01	-.045	.0166	.005	-.028	-.0015	1.9
	-.48	-.023	.0156	.001	-.038	-.0014	1.8
1.50	0.47	0.020	0.0156	-0.005	-0.058	0.0011	1.8
	1.00	.043	.0163	-.008	-.067	-.0010	1.7
	2.04	.086	.0188	-.014	-.090	-.0008	1.7
	4.09	.170	.0269	-.027	-.131	-.0007	1.5
	6.15	.256	.0409	-.040	-.168	-.0003	1.4
	8.20	.340	.0609	-.052	-.205	-.0001	1.3
	10.25	.420	.0866	-.064	-.254	.0001	1.2
	11.38	.465	.1031	-.070	-.278	.0002	1.1
1.70	-4.09	-.161	.0252	.022	.046	-.0014	2.1
	-2.04	-.082	.0173	.011	.011	-.0012	2.0
	-1.01	-.043	.0156	.005	-.006	-.0010	1.9
	-.48	-.021	.0151	.002	-.017	-.0009	1.9
	.47	.016	.0152	-.003	-.036	-.0007	1.8
	.99	.037	.0157	-.007	-.047	-.0006	1.8
	2.04	.077	.0178	-.012	-.067	-.0005	1.7
	4.06	.153	.0254	-.023	-.105	-.0002	1.6
	6.13	.230	.0381	-.035	-.143	.0002	1.5
	8.18	.306	.0561	-.045	-.179	.0004	1.4
	10.23	.375	.0787	-.057	-.218	.0009	1.3
	12.28	.446	.1062	-.064	-.251	.0013	1.2
1.90	-4.08	-.149	.0243	.019	.031	-.0012	2.1
	-2.04	-.073	.0174	.009	.018	-.0010	2.0
	-1.00	-.040	.0157	.004	.000	-.0009	2.0
	-.48	-.022	.0153	.002	-.006	-.0008	1.9
	.47	.014	.0153	-.003	-.023	-.0007	1.9
	1.00	.032	.0157	-.006	-.032	-.0006	1.9
	2.03	.068	.0173	-.011	-.050	-.0004	1.8
	4.07	.137	.0242	-.020	-.083	-.0001	1.7
	6.12	.205	.0356	-.029	-.118	.0003	1.6
	8.16	.278	.0516	-.038	-.149	.0007	1.5
	10.21	.338	.0723	-.046	-.183	.0007	1.4
	12.25	.398	.0965	-.053	-.213	.0013	1.3
	14.30	.458	.1269	-.058	-.242	.0016	1.2
	16.34	.516	.1583	-.063	-.271	.0019	1.1

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.18	-0.188	0.0166	0.005	0.011	-0.0011	0
	-2.07	-.095	.0108	.001	-.001	-.0011	0
	-1.03	-.052	.0090	-.001	-.008	-.0011	0
	-.50	-.028	.0086	-.002	-.008	-.0010	0
	.47	.017	.0086	-.003	-.016	-.0010	0
	.99	.039	.0092	-.004	-.019	-.0011	0
	2.06	.084	.0107	-.006	-.023	-.0012	0
	4.16	.174	.0166	-.010	-.039	-.0014	0
	6.26	.272	.0295	-.015	-.053	-.0016	0
	8.36	.373	.0501	-.019	-.066	-.0008	-.1
	10.47	.474	.0795	-.020	-.102	-.0010	-.1
	12.57	.574	.1176	-.018	-.136	-.0014	-.2
	14.67	.670	.1627	-.018	-.157	-.0004	-.2
	16.79	.789	.2218	-.023	-.182	.0034	-.3
	17.85	.840	.2532	-.022	-.194	.0033	-.3
0.80	-4.21	-.195	.0180	.008	.019	-.0012	0
	-2.10	-.097	.0105	.002	.009	-.0012	0
	-1.03	-.051	.0090	-.001	.002	-.0010	0
	-.50	-.028	.0084	-.002	-.002	-.0010	0
	.48	.020	.0086	-.004	-.008	-.0009	0
	1.01	.043	.0091	-.005	-.012	-.0010	0
	2.08	.090	.0110	-.008	-.019	-.0010	0
	4.19	.185	.0182	-.014	-.039	-.0010	0
	6.31	.290	.0326	-.021	-.054	-.0009	-.1
	8.65	.398	.0596	-.038	-.070	.0005	-.1
	10.54	.479	.0873	-.019	-.135	.0005	-.3
	12.65	.580	.1277	-.026	-.162	.0001	-.3
	14.78	.691	.1782	-.033	-.179	.0001	-.4
	16.89	.766	.2330	-.035	-.197	.0005	-.4
	17.97	.855	.2708	-.046	-.216	.0113	-.4
0.90	-4.22	-.210	.0199	.012	.006	-.0008	0
	-2.11	-.106	.0114	.004	-.006	-.0007	0
	-1.03	-.055	.0091	0	-.009	-.0006	0
	-.50	-.030	.0087	-.001	-.015	-.0006	0
	.47	.018	.0086	-.004	-.023	-.0004	0
0.90	1.01	0.043	0.0093	-0.005	-0.027	-0.0004	0
	2.09	.093	.0113	-.008	-.035	-.0002	0
	4.19	.194	.0196	-.016	-.056	-.0002	-.1
	6.32	.303	.0352	-.022	-.073	.0002	-.1
	8.45	.406	.0616	-.024	-.117	.0008	-.2
	10.57	.507	.0965	-.028	-.162	.0009	-.4
1.20	-4.11	-.211	.0272	.034	.039	.0007	.1
	-2.05	-.109	.0180	.017	.012	.0008	0
	-1.02	-.062	.0155	.010	-.003	.0010	0
	-.49	-.036	.0147	.007	-.010	.0010	0
	.47	.014	.0147	0	-.031	.0009	0
	1.00	.038	.0152	-.004	-.043	.0008	-.1
	2.04	.088	.0173	-.011	-.064	.0006	-.1
	4.10	.187	.0258	-.027	-.102	.0005	-.2
	6.16	.290	.0413	-.043	-.142	.0004	-.4
	8.22	.399	.0650	-.060	-.186	.0008	-.5
	10.28	.496	.0997	-.078	-.242	.0009	-.6
1.30	-4.21	-.196	.0301	.031	.067	-.0004	.2
	-2.11	-.101	.0211	.016	.029	0	0
	-1.04	-.056	.0186	.009	.007	.0001	0
	-.51	-.031	.0179	.006	-.000	.0002	0
	.48	.014	.0178	0	-.022	.0002	0
	1.02	.038	.0184	-.004	-.035	.0004	-.1
	2.09	.085	.0208	-.011	-.059	.0005	-.1
	4.19	.176	.0291	-.025	-.102	.0006	-.3
	6.29	.270	.0441	-.039	-.143	.0008	-.4
	8.41	.367	.0670	-.053	-.188	.0008	-.5
	10.61	.461	.0974	-.066	-.241	.0008	-.7
	11.22	.492	.1079	-.071	-.258	.0008	-.7
1.50	-4.10	-.179	.0268	.028	.058	-.0005	.1
	-2.05	-.092	.0185	.014	.020	-.0002	.0
	-1.01	-.050	.0162	.008	.000	0	0
	-.48	-.027	.0155	.005	-.009	.0001	0
	.47	.013	.0153	-.001	-.026	.0003	0
1.50	1.00	0.036	0.0161	-0.005	-0.038	0.0004	-0.1
	2.04	.080	.0183	-.011	-.060	.0004	-.1
	4.10	.165	.0263	-.024	-.100	.0006	-.3
	6.15	.249	.0398	-.037	-.137	.0011	-.4
	8.20	.334	.0596	-.048	-.176	.0013	-.5
	10.25	.411	.0845	-.060	-.223	.0014	-.6
	11.79	.470	.1067	-.069	-.269	.0018	-.7
1.70	-4.09	-.164	.0258	.025	.061	-.0004	.1
	-2.04	-.087	.0179	.014	.027	0	0
	-1.01	-.048	.0158	.008	.008	.0002	0
	-.48	-.027	.0153	.005	-.000	.0003	0
	.47	.012	.0152	-.001	-.017	.0004	0
	.99	.032	.0156	-.004	-.028	.0006	0
	2.04	.073	.0179	-.010	-.047	.0008	-.1
	4.09	.148	.0248	-.021	-.086	.0010	-.2
	6.14	.225	.0373	-.032	-.123	.0015	-.3
	8.19	.300	.0549	-.043	-.159	.0016	-.4
	10.23	.370	.0773	-.052	-.197	.0021	-.6
	12.26	.440	.1046	-.061	-.235	.0025	-.6
	13.32	.480	.1230	-.066	-.242	.0027	-.7
1.90	-4.08	-.148	.0253	.021	.062	-.0002	.1
	-2.04	-.078	.0180	.011	.030	.0001	.0
	-1.00	-.043	.0162	.007	.013	.0003	0
	-.48	-.025	.0157	.004	.004	.0003	0
	.46	.010	.0155	-.001	-.011	.0003	0
	.99	.028	.0158	-.003	-.019	.0005	0
	2.03	.064	.0173	-.008	-.036	.0006	-.1
	4.06	.132	.0239	-.018	-.069	.0010	-.2
	6.12	.200	.0351	-.027	-.101	.0012	-.3
	8.16	.267	.0510	-.036	-.135	-.0057	-.4
	10.21	.332	.0711	-.043	-.167	.0017	-.5
	12.25	.394	.0953	-.051	-.195	.0023	-.5
	14.30	.453	.1235	-.056	-.221	.0026	-.6
	16.35	.511	.1566	-.061	-.247	.0029	-.7
	17.38	.542	.1754	-.062	-.260	.0030	-.7

NACA

TABLE VI.- CONTINUED



(c) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_n	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.18	-0.202	0.0184	0.014	0.031	0.0085	-2.0	0.90	6.32	0.286	0.0338	-0.011	-0.050	0.0044	-2.2	1.50	4.10	0.160	0.0262	-0.020	-0.058	0.0083	-2.2
	-2.09	-.116	.0120	.008	.019	.0025	-2.0		8.43	.363	.0586	-.013	-.086	.0036	-2.3		6.15	.245	.0395	-.032	-.096	.0023	-2.3
	-1.04	-.065	.0096	.007	.013	.0027	-2.0		10.56	.490	.0926	-.017	-.126	.0043	-2.4		8.21	.329	.0591	-.044	-.135	.0025	-2.5
	-.49	-.043	.0089	.007	.010	.0026	-2.0										10.26	.408	.0832	-.056	-.181	.0063	-2.6
	.50	.003	.0088	.006	.005	.0028	-2.0	1.20	-4.11	-.218	.0280	.038	.094	.0028	-1.8		12.31	.487	.1143	-.066	-.210	.0032	-2.7
	1.03	.025	.0091	.005	.003	.0027	-2.1		-2.05	-.118	.0185	.023	.070	.0031	-1.8		14.37	.561	.1495	-.075	-.240	.0034	-2.8
	2.05	.070	.0105	.003	-.004	.0024	-2.1		-1.02	-.069	.0158	.016	.058	.0032	-1.9		16.42	.634	.1906	-.084	-.275	.0031	-2.9
	4.16	.165	.0183	-.003	-.020	.0022	-2.1		-.49	-.043	.0150	.012	.051	.0031	-1.9		17.45	.669	.2132	-.087	-.292	.0025	-2.9
	6.26	.264	.0310	-.006	-.034	.0020	-2.1		.52	.007	.0148	.005	.031	.0031	-2.0								
	8.38	.366	.0520	-.011	-.049	.0026	-2.1		1.00	.031	.0154	.002	.021	.0030	-2.0								
	10.43	.460	.0772	-.012	-.063	.0025	-2.2		2.05	.081	.0173	-.005	.001	.0029	-2.0	1.70	-4.09	-.168	.0266	.027	.082	.0007	-1.8
	12.56	.562	.1156	-.009	-.109	.0021	-2.3		4.10	.178	.0256	-.021	-.037	.0027	-2.2		-2.04	-.090	.0186	.016	.051	.0011	-1.9
	14.67	.667	.1628	-.009	-.123	.0023	-2.3		6.16	.282	.0407	-.036	-.076	.0026	-2.3		-1.01	-.051	.0164	.010	.032	.0013	-2.0
	16.79	.788	.2223	-.013	-.146	.0064	-2.3		8.22	.388	.0642	-.053	-.120	.0031	-2.4		-.48	-.030	.0158	.008	.029	—	-2.0
	17.85	.836	.2524	-.012	-.155	.0061	-2.3		10.28	.490	.0950	-.068	-.173	.0031	-2.5		.50	.010	.0155	.002	.008	—	-2.0
									12.35	.596	.1339	-.084	-.231	.0034	-2.7		.99	.029	.0159	-.001	-.006	.0016	-2.1
																	2.04	.068	.0177	-.007	-.015	.0018	-2.1
0.80	-4.22	-.212	.0200	.018	.036	.0027	-2.0										4.09	.185	.0249	-.018	-.052	.0020	-2.2
	-2.11	-.115	.0119	.011	.022	.0027	-2.0	1.30	-4.20	-.201	.0308	.035	.115	.0013	-1.7		6.14	.222	.0371	-.029	-.089	.0025	-2.3
	-1.05	-.069	.0097	.008	.014	.0029	-2.0		-2.10	-.106	.0216	.020	.082	.0017	-1.8		8.19	.297	.0547	-.033	-.126	.0026	-2.4
	-.51	-.043	.0089	.007	.010	.0030	-2.0		-1.04	-.061	.0189	.013	.062	.0018	-1.9		10.24	.367	.0770	-.048	-.160	.0031	-2.5
	.51	.004	.0087	.006	.006	.0031	---		-.50	-.036	.0182	.010	.048	.0019	-1.9		12.28	.437	.1037	-.057	-.186	.0035	-2.6
	1.03	.027	.0091	.005	.004	.0031	---		.53	.011	.0180	.003	.027	.0021	-2.0		14.33	.504	.1354	-.069	-.212	.0038	-2.7
	2.07	.075	.0107	.002	-.003	.0028	-2.1		1.02	.033	.0185	0	.015	.0022	-2.0		16.39	.569	.1721	-.071	-.240	.0041	-2.8
	4.19	.170	.0172	-.004	-.016	.0028	-2.1		2.13	.079	.0207	-.006	-.005	.0023	-2.1		17.42	.602	.1985	-.073	-.254	.0038	-2.8
	6.30	.275	.0311	-.011	-.027	.0029	-2.1		4.18	.171	.0289	-.020	-.048	.0023	-2.2								
	8.42	.381	.0555	-.014	-.046	.0047	-2.2		6.28	.265	.0436	-.034	-.089	.0024	-2.3								
	10.53	.465	.0850	-.010	-.109	.0034	-2.3		8.41	.361	.0661	-.047	-.135	.0025	-2.5	1.90	-4.08	-.151	.0257	.023	.082	.0007	-1.8
	12.65	.569	.1295	-.016	-.118	.0032	-2.3		10.51	.454	.0955	-.060	-.187	.0022	-2.6		-2.04	-.081	.0185	.013	.052	.0004	-1.9
	14.77	.680	.1752	-.022	-.132	.0033	-2.3		12.61	.541	.1304	-.078	-.234	.0024	-2.7		-1.00	-.047	.0166	.009	.035	.0011	-1.9
	16.91	.801	.2374	-.032	-.153	.0121	-2.4		14.70	.626	.1713	-.083	-.268	.0023	-2.8		-.48	-.028	.0161	.006	.028	.0012	-2.0
	17.96	.844	.2670	-.035	-.169	.0134	-2.4		16.81	.708	.2182	-.094	-.303	.0012	-2.9		.51	.008	.0158	.001	.010	.0013	-2.0
									17.86	.743	.2446	-.096	-.319	0	-3.0		.98	.025	.0160	-.001	.003	.0014	-2.0
0.90	-4.23	-.230	.0220	.023	.035	.0033	-2.0										2.03	.061	.0175	-.005	-.008	.0015	-2.1
	-2.12	-.122	.0123	.014	.018	.0032	-2.0	1.50	-4.10	-.182	.0277	.030	.090	.0009	-1.8		4.08	.130	.0240	-.015	-.040	.0017	-2.1
	-1.06	-.073	.0097	.011	.013	.0035	-2.0		-2.05	-.096	.0198	.017	.058	.0012	-1.9		6.12	.198	.0342	-.024	-.074	.0021	-2.2
	-.52	-.049	.0090	.009	.012	.0037	-2.0		-1.01	-.054	.0167	.011	.053	.0014	-1.9		8.17	.265	.0508	-.033	-.105	.0025	-2.4
	.51	.001	.0088	.006	.006	.0038	-2.0		-.48	-.031	.0159	.008	.029	.0015	-2.0		10.21	.330	.0708	-.042	-.136	.0024	-2.5
	1.04	.026	.0091	.006	.003	.0038	-2.0		.52	.013	.0157	.002	.007	.0017	-2.0		12.25	.391	.0943	-.047	-.161	.0031	-2.5
	2.09	.076	.0108	.003	-.011	.0037	-2.1		1.00	.033	.0163	-.001	.002	.0018	-2.0		14.30	.450	.1223	-.053	-.183	.0034	-2.6
	4.20	.179	.0185	-.005	-.030	.0036	-2.1		2.04	.078	.0184	-.007	-.018	.0019	-2.1		16.35	.509	.1559	-.057	-.207	.0036	-2.7
																	17.38	.539	.1742	-.058	-.220	.0039	-2.7

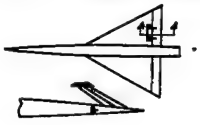
(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_n	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.20	0.223	0.0200	0.021	0.039	0.0058	-3.9	0.80	8.43	0.361	0.0553	-0.005	-0.061	0.0066	-4.1	1.50	8.21	0.322	0.579	-0.040	-0.113	0.0036	-4.3
	-2.11	-.123	.0123	.017	.025	.0058	-3.9		10.55	.463	.0885	-.009	-.073	.0075	-4.1		10.26	.402	.0828	-.052	-.163	.0038	-4.5
	-1.06	-.087	.0104	.015	.019	.0058	-3.9										12.31	.480	.1125	-.062	-.191	.0042	-4.9
	-.52	-.064	.0096	.014	.016	.0059	-3.9	1.20	-4.11	-.230	.0294	.044	.143	.0047	-3.5		14.37	.554	.1476	-.071	-.221	.0043	-4.6
	.48	-.021	.0091	.013	.010	.0060	-3.9		-2.05	-.129	.0195	.028	.219	.0031	-3.6		16.43	.627	.1881	-.079	-.255	.0042	-4.7
	1.01	.001	.0093	.012	.007	.0059	-3.9		-1.02	-.078	.0166	.021	.109	.0055	-3.6		17.46	.663	.2106	-.083	-.271	.0036	-4.8
	2.08	.048	.0104	.011	-.002	.0055	-4.0		-.49	-.053	.0158	.017	.100	.0054	-3.7								
	4.14	.134	.0147	.007	-.017	.0054	-4.0		.51	-.003	.0154	.010	.084	.0053	-3.7	1.70	-4.09	-.172	.0275	.030	.102	.0017	-3.6
	6.24	.231	.0251	.001	-.035	.0052	-4.0		1.04	.023	.0158	.007	.074	.0052	-3.7		-2.04	-.094	.0192	.018	.070	.0082	-3.7
	8.34	.335	.0456	-.003	-.050	.0058	-4.0		2.05	.069	.0173	0	.050	.0050	-3.8		-1.01	-.055	.0170	.013	.052	.0025	-3.8
	10.45	.437	.0737	-.005	-.081	.0054	-4.1		4.10	.168	.0251	-.016	.008	.0047	-3.9		-.48	-.035	.0163	.010	.043	.0023	-3.8
	12.55	.534	.1099	-.003	-.097	.0048	-4.1		6.16	.272	.0398	-.031	-.033	.0046	-4.0		.51	.005	.0159	.004	.024	.0086	-3.9
	14.66	.633	.1543	-.003	-.112	.0047	-4.1		8.22	.379	.0631	-.048	-.080	.0048	-4.2		.99	.025	.0162	.001	.015	.0027	-3.9
	16.79	.756	.2134	-.008	-.134	.0088	-4.2		10.29	.480	.0931	-.062	-.134	.0048	-4.3		2.04	.063	.0178	-.004	-.003	.0089	-4.0
	17.85	.808	.2438	-.008	-.141	.0090	-4.2		12.35	.585	.1302	-.077	-.192	.0052	-4.5		4.09	.139	.0246	-.016	-.041	.0032	-4.1
																	6.14	.216	.0369	-.026	-.077	.0034	-4.2
0.80	-4.23	-.233	.0220	.026	.052	.0061	-3.8	1.30	-4.10	-.208	.0309	.039	.153	.0032	-3.5		8.19	.291	.0539	-.036	-.115	.0035	-4.3
	-2.12	-.134	.0132	.019	.045	.0060	-3.8		-2.05	-.115	.0215	.024	.122	.0035	-3.6		10.24	.363	.0759	-.045	-.149	.0040	-4.4
	-1.07	-.088	.0106	.017	.039	.0062	-3.9		-1.02	-.068	.0188	.018	.103	.0037	-3.6		12.29	.432	.1085	-.054	-.174	.0043	-4.5
	-.53	-.064	.0097	.016	.036	.0064	-3.9		-.49	-.044	.0180	.014	.091	.0037	-3.7		14.34	.499	.1338	-.062	-.200	.0047	-4.6
	.49	-.019	.0092	.014	.032	.0065	-3.9		.52	.004	.0176	.008	.069	.0037	-3.7		16.39	.565	.1704	-.067	-.227	.0048	-4.7
	1.02	.004	.0093	.013	.028	.0065	-3.9		1.04	.027	.0182	.004	.058	.0038	-3.8		17.42	.596	.1901	-.069	-.240	.0047	-4.7
	2.10	.052	.0105	.010	---	.0061	---		2.05	.071	.0199	-.002	.037	.0039	-3.8								
	4.17	.146	.0160	.004	0	.0061	-4.0		4.10	.163	.0274	-.016	-.006	.0040	-4.0								
	6.26	.250	.0286	-.002	-.016	.0062	-4.0		6.16	.257	.0413	-.030	-.049	.0039	-4.1	1.90	-4.08	-.154	.0267	.029	.089	.0016	-3.7
	8.40	.355	.0521	-.006	-.043	.0077	-4.0		8.22	.358	.0626	-.043	-.099	.0038	-4.2		-2.04	-.089	.0192	.016	.062	.0019	-3.8
	10.51	.444	.0816	-.003	-.099	.0059	-4.2		10.28	.443	.0905	-.056	-.133	.0038	-4.4		-1.01	-.051	.0172	.011	.046	.0020	-3.8
	12.63	.549	.1210	-.010	-.106	.0058	-4.2		12.33	.530	.1241	-.068	-.200	.0038	-4.5		-.48	-.032	.0164	.008	.038	.0021	-3.8
	14.76	.659	.1693	-.015	-.120	.0061	-4.2		14.39	.613	.1634	-.079	-.236	.0036	-4.6		.51	.004	.0161	.003	.021	.0022	-3.9
	16.87	.791	.2228	-.017	-.138	.0065	-4.3		16.45	.696	.2095	-.088	-.272	.0026	-4.8		.98	.021	.0163	.001	.014	.0023	-3.9
	17.95	.825	.2609	-.028	-.157	.0016	-4.3		17.48	.734	.2338	-.093	-.287	.0015	-4.8		2.03	.057	.0176	-.004	.003	.0024	-4.0
																	4.08	.125	.0238	-.013	-.035	.0027	-4.1
0.90	-4.26	-.251	.0242	.032	.061	.0068	-3.8	1.50	-4.10	-.188	.0267	.034	.124	.0022	-3.6		6.12	.193	.0345	-.022	-.069	.0030	-4.2
	-2.13	-.144	.0138	.024	.044	.0068	-3.8		-2.04	-.101	.0199	.021	.081	.0026	-3.7		8.17	.259	.0497	-.030	-.100	.0033	-4.3
	-1.08	-.096	.0110	.021	.044	.0071	-3.8		-1.01	-.059	.0174	.014	.062	.0027	-3.8		10.21	.325	.0696	-.038	-.129	.0033	-4.3
	-.54	-.070	.0100	.019	.042	.0074	-3.8		-.48	-.036	.0166	.011	.053	.0028	-3.8		12.26	.386	.0933	-.045	-.158	.0039	-4.4
	.48	-.024	.0094	.017	.039	.0077	-3.9		.52	.007	.0163	.005	.032	.0029	-3.9		14.31	.445	.1210	-.050	-.174	.0042	-4.5
	1.03	.003	.0094	.016	.032	.0076	-3.9		.99	.028	.0168	.002	.023	.0031	-3.9		16.36	.506	.1542	-.054	-.198	.0045	-4.6
	2.11	.054	.0107	.012	.013	.0071	-3.9		1.96	.071	—	-.004	.001	.0031	-3.9		17.38	.535	.1726	-.056	-.210	.0047	-4.6
	4.19	.156	.0173	.004	-.015	.0076	-4.0		4.10	.153	.0258	-.017	-.039	.0032	-4.1								
	6.31	.262	.0317	-.003	-.037	.0076	-4.0		6.15	.237	.0387	-.029	-.078	.0036	-4.2								

[redacted]

NACA

TABLE VI.- CONTINUED



Section A-A

(e) Nominal δ, -8°

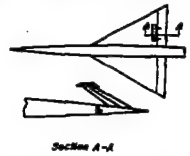
M	α	C_L	C_D	C_m	C_Y	C_l	δ	M	α	C_L	C_D	C_m	C_n	C_l	δ	M	α	C_L	C_D	C_m	C_n	C_l	δ
0.60	-4.22	-0.255	0.0250	0.036	-0.007	-0.0124	-7.9	0.90	6.30	0.235	0.0389	0.012	0.080	0.0132	-7.9	1.50	2.04	0.061	0.0198	0.002	0.074	0.0058	-7.8
	-2.13	-.163	.0166	.031	.007	.0119	-7.9		8.42	.335	.0563	.010	---	.0123	-7.9		4.10	.144	.0266	-.011	.033	.0058	-7.9
	-1.09	-.120	.0137	.030	.014	.0123	-7.9		10.54	.439	.0892	.005	.092	.0125	-7.9		6.15	.230	.0390	-.023	-.005	.0060	-8.1
	-.56	-.097	.0125	.029	.072	.0124	-7.9		12.67	.550	.1304	-.005	.038	.0122	-8.0		8.21	.315	.0578	-.034	-.050	.0059	-8.2
	-.30	-.056	.0111	.029	.067	.0125	-7.9										10.26	.356	.0823	-.045	-.094	.0060	-8.3
	.96	-.083	.0110	.028	.061	.0125	-7.9	1.20	-4.10	-.248	.0334	.055	.248	.0093	-7.3		12.31	.475	.1121	-.055	-.123	.0065	-8.4
	2.05	.015	.0116	.026	.051	.0121	-8.0		-2.05	-.146	.0226	.040	.221	.0097	-7.4		14.37	.550	.1467	-.065	-.151	.0070	-8.5
	4.17	.106	.0151	.022	.032	.0118	-8.0		-1.02	-.097	.0196	.033	.216	.0101	-7.4		16.42	.624	.1873	-.073	-.185	.0064	-8.6
	6.22	.199	.0232	.017	.016	.0117	-8.0		-.50	-.071	.0185	.029	.210	.0101	-7.5		17.45	.659	.2091	-.077	-.202	.0059	-8.7
	8.32	.302	.0431	.012	.007	.0119	---		.51	-.021	.0176	.022	.194	.0101	-7.5								
	10.43	.406	.0703	.009	0	.0192	-8.1		1.03	.003	.0179	.019	.184	.0101	-7.5	1.70	-4.09	-.182	.0299	.039	.158	.0040	-7.6
	12.53	.508	.1097	.010	-.011	.0108	-8.1		2.09	.053	.0192	.011	.159	.0097	-7.6		-2.04	-.103	.0211	.024	.127	.0045	-7.7
	14.66	.613	.1513	.010	-.017	.0111	-8.1		4.11	.151	.0263	-.005	.112	.0092	-7.7		-1.01	-.063	.0187	.018	.110	.0045	-7.7
	16.78	.732	.2082	.006	-.027	.0136	-8.1		6.17	.256	.0402	-.020	.067	.0089	-7.9		-.45	-.043	.0179	.015	.100	.0047	-7.7
	17.84	.780	.2371	.006	-.030	.0133	-8.1		8.23	.365	.0667	-.037	.019	.0089	-8.0		.51	-.003	.0175	.010	.081	.0048	-7.8
									10.29	.467	.0920	-.052	-.034	.0087	-8.1		1.04	.018	.0176	.007	.071	.0049	-7.8
0.80	-4.26	-.270	.0269	.043	.117	.0126	-7.8		12.46	.573	.1305	---	-.104	.0089	-8.3		2.03	.057	.0190	.001	.054	.0050	-7.9
	-2.14	-.166	.0179	.035	.092	.0122	-7.8										4.09	.133	.0254	-.010	.015	.0051	-8.0
	-1.09	-.122	.0146	.033	.092	.0126	-7.8	1.30	-4.10	-.224	.0343	.048	.238	.0067	-7.4		6.14	.210	.0369	-.021	-.019	.0054	-8.1
	-.57	-.101	.0136	.033	.093	.0139	-7.8		-2.04	-.126	.0244	.033	.214	.0073	-7.4		8.19	.286	.0537	-.031	-.061	.0053	-8.2
	.50	-.097	.0124	---	.092	.0134	-7.8		-1.02	-.082	.0214	.027	.200	.0075	-7.5		10.24	.359	.0760	-.040	-.094	.0058	-8.3
	.96	-.034	.0121	.031	.066	.0133	-7.9		-.49	-.058	.0203	.023	.188	.0075	-7.5		12.29	.429	.1023	-.049	-.118	.0061	-8.4
	2.05	.017	.0127	.028	.068	.0129	-7.9		.51	-.021	.0196	.017	.166	.0075	-7.6		14.34	.497	.1335	-.056	-.142	.0064	-8.5
	4.20	.115	---	.022	.046	.0125	-7.9		1.04	.013	.0199	.013	.155	.0074	-7.6		16.39	.562	.1697	-.063	-.169	.0066	-8.6
	6.26	.215	.0277	.015	.030	.0128	-8.0		2.10	.060	.0216	.007	.131	.0074	-7.7		17.42	.595	.1897	-.065	-.181	.0065	-8.6
	8.39	.323	.0488	.010	.001	.0136	-8.0		4.10	.150	.0295	-.006	.087	.0074	-7.8								
	10.50	.419	.0782	.011	-.015	.0118	-8.1		6.16	.246	.0418	-.022	.041	.0072	-7.9	1.90	-4.08	-.161	.0295	.029	.136	.0035	-7.6
	12.62	.525	.1170	.005	-.024	.0117	-8.1		8.22	.342	.0627	-.035	-.006	.0068	-8.3		-2.03	-.092	.0214	.020	.106	.0038	-7.7
	14.73	.633	.1695	.001	-.038	.0125	-8.1		10.28	.434	.0900	-.048	-.052	-.0114	-8.5		-1.01	-.056	.0191	.015	.091	.0039	-7.8
	16.89	.751	.2249	-.009	-.063	.0200	-8.2		12.34	.522	.1235	-.061	-.113	-.0114	-8.6		-.46	-.037	.0183	.013	.083	.0040	-7.8
	17.94	.799	.2553	-.013	-.071	.0212	-8.2		14.40	.607	.1627	-.071	-.149	.0064	-8.8		.51	-.002	.0178	.008	.066	.0040	-7.9
									16.46	.690	.2022	-.081	-.186	.0058	-8.9		1.03	.015	.0179	.005	.058	.0041	-7.9
0.90	-4.27	-.280	.0314	.047	.164	.0123	-7.7		17.49	.730	.2331	-.086	-.203	.0042	-8.9		2.08	.051	.0189	0	.042	.0043	-7.9
	-2.15	-.171	.0194	.037	.137	.0117	-7.7										4.08	.120	.0245	-.009	.007	.0044	-8.0
	-1.09	-.121	.0162	.034	.114	.0122	-7.7	1.50	-4.09	-.199	.0315	.040	.207	.0049	-7.4		6.12	.189	.0348	-.018	-.025	.0046	-8.1
	-.56	-.091	.0152	.034	.193	.0127	-7.7		-2.04	-.112	.0222	.027	.166	.0058	-7.6		8.17	.256	.0498	-.027	-.077	.0049	-8.2
	.46	-.051	.0136	.031	.141	.0126	-7.7		-1.02	-.070	.0194	.021	.143	.0055	-7.6		10.21	.322	.0694	-.034	-.035	.0048	-8.3
	1.00	-.026	.0134	.030	.136	.0128	-7.7		-.49	-.047	.0184	.018	.129	.0055	-7.7		12.26	.389	.0929	-.041	-.106	.0053	-8.4
	2.06	.026	.0142	.027	.120	.0128	-7.8		.52	-.004	.0179	.012	.107	.0056	-7.7		14.30	.444	.1204	-.046	-.126	.0057	-8.4
	4.23	.131	.0196	.019	.094	.0127	-7.8		1.04	.018	.0182	.009	.097	.0057	-7.8		16.35	.504	.1532	-.050	-.148	.0060	-8.5
																	17.38	.534	.1715	-.052	-.160	.0061	-8.5

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_Y	C_l	δ	M	α	C_L	C_D	C_m	C_n	C_l	δ	M	α	C_L	C_D	C_m	C_n	C_l	δ
0.60	-4.15	-0.284	0.0301	0.048	0.152	0.0178	-11.7	0.90	2.05	0.003	0.0163	0.036	0.186	0.0055	-11.5	1.50	-.51	-0.014	0.0202	0.018	0.194	0.0082	-11.3
	-2.15	-.190	.0189	.042	.129	.0169	-11.7		4.06	.107	.0204	.029	.161	.0055	-11.6		1.04	.008	.0205	.015	.169	.0063	-11.4
	-1.10	-.148	.0168	.041	.129	.0173	-11.7		6.28	.219	.0339	.020	.150	.0056	-11.6		2.09	.052	.0220	.008	.162	.0083	-11.4
	-.59	-.126	.0155	.041	.129	.0130	-11.7		8.40	.323	.0562	.017	.145	.0050	-11.6		4.10	.136	.0282	-.005	.114	.0062	-11.6
	.36	-.086	.0139	.040	.123	.0183	-11.7		10.51	.426	.0880	.011	.134	.0050	-11.6		6.16	.220	.0400	-.017	.065	.0063	-11.7
	.89	-.066	.0132	.040	.120	.0173	-11.7		12.63	.534	.1278	.002	-----	.0050	-----		8.21	.306	.0583	-.030	.016	.0080	-11.9
	1.95	-.019	.0130	.038	.100	.0176	-11.8										10.27	.376	.0821	-.041	-.025	.0081	-12.0
	4.13	.073	.0142	.034	.087	.0175	-11.8	1.20	-4.10	-.269	.0391	.062	.315	.0140	-11.1		12.32	.465	.1118	-.052	-.062	.0085	-12.1
	6.24	.166	.0216	.029	.071	.0174	-11.8		-2.04	-.168	.0277	.052	.298	.0148	-11.1								
	8.30	.271	.0391	.024	.050	.0174	-11.9		-1.01	-.120	.0240	.045	.296	.0152	-11.1	1.70	-4.09	-.188	.0331	.041	.021	.0060	-11.3
	10.41	.377	.0667	.021	.028	.0172	-11.9		-.50	-.095	.0228	.041	.291	.0152	-11.2		-2.04	-.110	.0239	.028	.019	.0065	-11.4
	12.51	.477	.1013	.021	.006	.0161	-11.9		.50	-.045	.0215	.034	.276	.0152	-11.2		-1.01	-.071	.0211	.023	.017	.0066	-11.4
	14.62	.574	.1453	.021	-.004	.0165	-12.0		1.02	-.019	.0215	.030	.269	.0150	-11.2		-.49	-.051	.0202	.020	.016	.0066	-11.4
	16.74	.900	.1968	.015	-.023	.0187	-12.0		2.06	.033	.0225	.023	.244	.0146	-11.3		.51	-.011	.0194	.014	.014	.0067	-11.5
	17.79	.738	.2248	.014	-.023	.0134	-12.0		4.11	.134	.0287	.006	.199	.0138	-11.4		1.04	.011	.0196	.011	.013	.0069	-11.5
									6.16	.236	.0417	-.010	.153	-.0102	-11.5		2.08	.050	.0209	.006	.011	.0069	-11.6
0.80	-4.27	-.290	.0340	.052	.18	.0163	-11.5		8.22	.346	.0636	-.028	.105	-.0277	-11.7		4.09	.125	.0268	-.006	.007	.0070	-11.7
	-2.16	-.191	.0227	.044	.168	.0150	-11.6		10.28	.450	.0927	-.054	.039	-.0437	-11.8		6.14	.202	.0377	-.017	.003	.0072	-11.8
	-1.11	-.143	.0192	.042	.170	.0163	-11.6		12.35	.555	.1286	-.061	.028	-.0607	-12.2		8.19	.278	.0539	-.04	-.000	.0072	-12.0
	-.58	-.122	.0173	.041	.173	-.0005	-11.6		12.88	.590	.1408	-.067	.040	-.0673	-12.2		10.24	.350	.0731	-.037	-.004	.0073	-12.1
	.47	-.079	.0162	.040	.177	.0172	-11.6										12.29	.421	.1012	-.046	-.006	.0078	-12.2
	.96	-.056	.0157	.039	.178	.0171	-11.6	1.30	-4.09	-.236	.0388	.058	.307	.0105	-11.0		14.35	.488	.1318	-.053	-.009	.0079	-12.2
	2.03	-.008	.0157	.036	.149	.0170	-11.6		-2.04	-.142	.0262	.043	.292	.0111	-11.1								
	4.18	.073	.0191	.031	.121	.0172	-11.7		-1.00	-.097	.0250	.037	.282	.0114	-11.1	1.90	-4.08	-.168	.0317	.035	.180	.0051	-11.4
	6.30	.191	.0239	.025	.099	.0173	-11.7		-.49	-.073	.0236	.033	.273	.0114	-11.1		-2.03	-.098	.0236	.024	.154	.0054	-11.5
	8.36	.298	.0482	.020	.073	.0132	-11.8		.45	-.027	.0228	.025	.258	.0115	-11.2		-1.01	-.063	.0208	.019	.131	.0056	-11.6
	10.49	.403	.0780	.016	.059	.0195	-11.8		.99	-.003	.0230	.023	.251	.0111	-11.2		-.48	-.045	.0201	.016	.131	.0056	-11.6
	12.60	.498	.1142	.017	.069	.0178	-11.8		2.09	.046	.0241	.015	.243	.0108	-11.3		.45	-.009	.0196	.012	.117	.0057	-11.6
	14.73	.616	.1621	.005	.068	.0236	-11.8		4.10	.132	.0303	.001	.171	.0104	-11.4		1.03	.009	.0196	.009	.106	.0057	-11.6
	16.93	.717	.2183	-.006	.058	.0254	-11.7		6.16	.232	.0429	-.014	.123	.0100	-11.6		2.07	.044	.0204	.004	.107	.0059	-11.7
	17.90	.762	.2453	0	.110	.0271	-11.7		8.22	.329	.0632	-.029	.073	.0090	-11.7		4.07	.114	.0258	-.005	.097	.0060	-11.8
									10.26	.418	.0893	-.042	.014	.0090	-11.9		6.12	.181	.0356	-.014	.019	.0062	-11.9
0.90	-4.28	-.305	.0349	.057	.237	.0053	-11.4		12.32	.509	.1214	-.055	-.044	-----	-12.1		8.16	.248	.0503	-.023	-.013	.0063	-12.0
	-2.16	-.194	.0228	.048	.214	.0050	-11.5										10.20	.309	.0681	-.031	-.042	.0060	-12.1
	-1.10	-.145	.0186	.045	.219	.0053	-11.4	1.50	-4.09	-.208	.0351	.047	.281	.0077	-11.1		12.24	.371	.0908	-.037	-.065	.0065	-12.2
	-.58	-.123	.0183	.044	.224	.0054	-11.4		-2.04	-.121	.0251	.033	.245	.0079	-11.2		14.29	.431	.1176	-.043	-.083	.0068	-12.2
	.38	-.075	.0159	.041	.214	.0054	-11.5		-1.01	-.079	.0221	.027	.230	.0081	-11.2		16.33	.489	.1495	-.047	-.101	.0071	-12.3
	.87	-.042	.0162	.040	.209	.0054	-11.5		-.49	-.057	.0210	.024	.217	.0081	-11.3		17.37	.518	.1671	-.048	-.112	.0072	-12.3

NACA

TABLE VI.- CONTINUED



(g) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.306	0.0360	0.055	0.221	0.0063	-15.5	0.90	4.21	0.093	0.0239	0.036	0.225	0.0060	-15.3	1.50	1.03	0.004	0.0243	0.022	0.870	0.0106	-14.1
	-2.17	-.219	.0257	.051	.214	.0062	-15.5		6.33	.207	.0366	.027	.204	.0059	-15.4		2.09	.040	.0252	.015	.245	.0104	-14.2
	-1.11	-.171	.0221	.050	.212	.0064	-15.5		8.41	.310	.0715	.022	.176	.0051	-15.4		4.10	.125	.0307	.002	.194	.0101	-14.4
	-.65	-.152	.0208	.050	.217	.0065	-15.5		10.53	.414	.0903	.018	.192	.0054	-15.4		6.16	.210	.0419	-.011	.144	.0101	-14.3
	.34	-.113	.0190	.050	.223	.0068	-15.5		12.66	.522	.1297	.009	.188	.0053	-15.4		8.21	.293	.0594	-.023	.095	.0097	-14.7
	.88	-.091	.0185	.050	.221	.0069	-15.5										10.27	.376	.0828	-.035	.040	.0097	-14.8
	1.92	-.046	.0175	.048	.199	.0069	-15.5	1.20	-4.10	-.283	.0443	.078	.424	.0165	-13.7		12.33	.456	.1116	-.042	-.005	.0096	-15.0
	4.08	.049	.0188	.044	.170	.0067	-15.6		-2.04	-.183	.0323	.062	.408	.0176	-13.8		14.38	.531	.1450	-.056	-.032	.0099	-15.2
	6.24	.144	.0249	.040	.150	.0067	-15.6		-1.01	-.136	.0284	.055	.404	.0181	-13.8								
	8.34	.248	.0406	.035	.129	.0067	-15.6		-.50	-.111	.0269	.051	.398	.0182	-13.8	1.70	-4.08	-.197	.0377	.046	.236	.0075	-15.0
	10.39	.348	.0643	.031	.105	.0066	-15.7		.49	-.063	.0254	.044	.388	.0183	-13.9		-2.03	-.119	.0278	.034	.864	.0079	-14.2
	12.50	.453	.0997	.032	.085	.0065	-15.7		1.02	-.038	.0252	.041	.378	.0183	-13.9		-1.01	-.080	.0247	.028	.245	.0080	-14.2
	14.61	.556	.1431	.032	.068	.0067	-15.7		2.08	.015	.0258	.033	.354	.0177	-13.9		-.49	-.050	.0236	.025	.234	.0080	-14.2
	16.74	.676	.1982	.028	.049	.0072	-15.8		4.16	.118	.0314	.016	.304	.0169	-14.1		.51	-.021	.0226	.019	.214	.0081	-14.3
	17.80	.724	.2256	.027	.035	.0070	-15.8		6.17	.220	.04390		.246	.0161	-14.2		1.03	.001	.0225	.017	.204	.0082	-14.3
									8.23	.388	.0652	-.018	.194	.0160	-14.4		2.08	.041	.0235	.011	.185	.0083	-14.4
0.80	-4.28	-.301	.0374	.057	.243	.0160	-14.4		10.30	.436	.0939	-.034	.182	.0150	-14.6		4.09	.117	.0287	-.001	.143	.0088	-14.5
	-2.17	-.204	.0264	.051	.240	.0171	-14.4		12.36	.544	.1298	-.052	.037	.0147	-14.8		6.14	.194	.0390	-.018	.098	.0093	-14.6
	-1.12	-.159	.0227	.049	.242	.0174	-14.4		13.39	.602	.1519	-.062	.021	.0154	-14.9		8.19	.270	.0547	-.023	.053	.0091	-14.8
	-.59	-.136	.0213	.048	.246	.0177	-14.4										10.24	.344	.0761	-.032	.008	.0084	-14.9
	.46	-.093	.0193	.046	.241	.0179	-14.4	1.30	-4.08	-.251	.0418	.066	.365	.0144	-14.8		12.29	.414	.1015	-.042	-.017	.0088	-15.0
	.95	-.069	.0187	.045	.237	.0179	-14.4		-2.03	-.159	.0340	.052	.351	.0146	-14.8		14.34	.481	.1315	-.049	-.039	.0089	-15.1
	2.02	-.024	.0186	.044	.228	.0183	-14.4		-1.01	-.116	.0303	.046	.346	.0147	-14.8		16.39	.546	.1666	-.056	-.062	.0089	-15.1
	4.17	.074	.0211	.038	.202	.0185	-14.5		-.49	-.092	.0289	.042	.341	.0147	-14.9								
	6.29	.176	.0308	.032	.183	.0186	-14.5		.55	-.046	.0272	.036	.336	.0147	-14.9	1.90	-4.08	-.177	.0356	.038	.237	.0080	-15.2
	8.36	.285	.0502	.026	.152	.0192	-14.6		1.08	-.021	.0272	.032	.321	.0148	-14.9		-2.04	-.106	.0267	.008	.210	.0080	-15.1
	10.48	.393	.0792	.021	.122	.0198	-14.7		2.09	.030	.0278	.024	.290	.0146	-15.0		-1.01	-.071	.0238	.023	.195	.0081	-15.3
	12.60	.490	.1149	.020	.109	.0170	-14.7		4.11	.122	.0333	.009	.237	.0144	-15.2		-.49	-.053	.0229	.021	.187	.0081	-15.3
	14.74	.612	.1645	.011	.111	.0236	-14.7		6.16	.217	.0452	-.005	.190	.0143	-15.3		.56	-.017	.0220	.016	.171	.0081	-15.3
	16.85	.703	.2168	.010	.142	.0265	-14.6		8.21	.312	.0644	-.019	.137	.0141	-15.5		1.02	.002	.0219	.013	.162	.0081	-15.4
	17.91	.752	.2473	.007	.178	.0283	-14.6		10.27	.407	.0905	-.034	.077	.0139	-15.6		2.07	.039	.0227	.009	.146	.0082	-15.4
									12.32	.499	.1229	-.047	.017	.0136	-15.8		4.08	.107	.0273	-.001	.111	.0082	-15.5
0.90	-4.29	-.315	.0408	.054	.275	.0052	-15.2		14.37	.584	.1610	-.060	-.014	.0134	-15.9		6.12	.176	.0370	-.010	.071	.0082	-15.6
	-2.17	-.209	.0281	.056	.274	.0053	-15.2										8.17	.243	.0518	-.020	.037	.0082	-15.7
	-1.12	-.161	.0243	.053	.285	.0058	-15.2	1.50	-4.09	-.220	.0406	.055	.341	.0110	-13.9		10.22	.310	.0700	-.028	.003	.0082	-15.8
	-.59	-.138	.0230	.052	.287	.0059	-15.2		-2.04	-.134	.0300	.041	.322	.0104	-14.0		12.27	.374	.0930	-.035	-.018	.0083	-15.9
	.36	-.094	.0207	.050	.281	.0060	-15.2		-1.01	-.092	.0257	.035	.310	.0104	-14.0		14.31	.434	.1201	-.040	-.037	.0084	-16.0
	.89	-.068	.0201	.048	.277	.0060	-15.2		-.50	-.070	.0234	.031	.297	.0104	-14.0		16.36	.491	.1523	-.044	-.056	.0085	-16.0
	1.98	-.016	.0198	.044	.252	.0059	-15.3		.50	-.068	.0242	.025	.278	.0105	-14.1		17.38	.524	.1705	-.045	-.066	.0086	-16.1

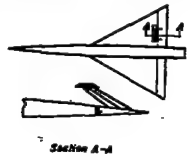
(h) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	0.315	0.0403	0.058	0.276	0.0211	-19.5	0.90	6.31	0.193	0.0378	0.030	0.232	0.0207	-19.4	1.50	4.11	0.115	0.0343	0.008	0.239	0.0139	-19.2
	-2.16	-.223	.0300	.054	.273	.0220	-19.5		8.38	.302	.0585	.023	.190	.0173	-19.5		6.16	.800	.0449	-.005	.189	.0138	-19.4
	-1.12	-.179	.0261	.052	.271	.0222	-19.5		10.51	.405	.0918	.020	.185	.0179	-19.5		8.21	.283	.0617	-.017	.139	.0133	-19.5
	-.60	-.157	.0246	.052	.270	.0223	-19.5										10.27	.358	.0847	-.030	.087	.0129	-19.7
	.34	-.119	.0226	.052	.274	.0231	-19.5	1.20	-4.10	-.301	.0500	.086	.491	.0207	-18.6		12.32	.447	.1185	-.042	.048	.0130	-19.8
	.87	-.099	.0219	.051	.273	.0233	-19.5		-2.04	-.200	.0375	.071	.473	.0221	-18.6		14.37	.520	.1452	-.051	.021	.0130	-19.9
	1.92	-.056	.0213	.052	.273	.0240	-19.5		-1.01	-.155	.0336	.064	.478	.0227	-18.6		15.78	.572	.1718	-.057	.002	.0126	-19.9
	4.09	.039	.0224	.046	.245	.0236	-19.5		-.50	-.130	.0320	.061	.472	.0229	-18.6								
	6.22	.133	.0279	.042	.224	.0233	-19.6		.48	-.082	.0303	.054	.459	.0233	-18.7	1.70	-4.08	-.206	.0424	.052	.346	.0111	-18.9
	8.31	.237	.0427	.037	.199	.0233	-19.6		1.00	-.058	.0300	.050	.455	.0234	-18.7		-2.03	-.129	.0323	.040	.328	.0115	-18.9
	10.42	.341	.0668	.034	.187	.0236	-19.6		2.06	-.005	.0303	.042	.434	.0228	-18.7		-1.01	-.090	.0290	.034	.311	.0115	-19.0
	12.47	.442	.0991	.035	.164	.0234	-19.7		4.16	.101	.0352	.025	.379	.0218	-18.9		-.50	-.070	.0279	.031	.301	.0115	-19.0
	14.58	.541	.1401	.036	.155	.0238	-19.7		6.17	.203	.0469	.008	.322	.0208	-19.0		.50	-.031	.0266	.025	.283	.0116	-19.1
	16.70	.633	.1947	.034	.146	.0270	-19.7		8.23	.309	.0671	-.009	.277	.0207	-19.2		1.03	-.010	.0265	.022	.275	.0116	-19.1
	17.75	.698	.2219	.034	.136	.0269	-19.7		10.29	.418	.0944	-.026	.214	.0192	-19.3		2.06	.031	.0272	.016	.256	.0116	-19.2
									12.36	.528	.1299	-.044	.110	.0181	-19.6		4.09	.109	.0320	.004	.206	.0115	-19.3
0.80	-4.29	-.315	.0422	.061	.293	.0190	-19.3		14.43	.632	.1723	-.055	.071	.0141	-19.7		6.14	.189	.0416	-.007	.156	.0115	-19.5
	-2.18	-.217	.0305	.056	.289	.0202	-19.3										8.19	.268	.0569	-.018	.111	.0112	-19.6
	-1.12	-.171	.0265	.053	.285	.0206	-19.3	1.30	-4.09	-.267	.0505	.075	.469	.0177	-18.6		10.24	.334	.0772	-.028	.061	.0113	-19.8
	-.60	-.148	.0246	.051	.283	.0206	-19.3		-2.03	-.174	.0391	.060	.455	.0186	-18.6		12.29	.407	.1023	-.038	.032	.0111	-19.9
	.45	-.107	.0226	.050	.281	.0212	-19.3		-1.00	-.130	.0350	.054	.448	.0189	-18.7		14.34	.475	.1320	-.045	.007	.0115	-19.9
	.93	-.083	.0221	.049	.280	.0213	-19.3		-.49	-.106	.0335	.050	.440	.0189	-18.7		16.39	.539	.1666	-.052	-.018	.0115	-80.0
	2.00	-.037	.0214	.047	.267	.0213	-19.4		.44	-.062	.0319	.044	.427	.0191	-18.7		17.42	.572	.1860	-.054	-.032	.0115	-20.0
	4.13	.061	.0235	.042	.243	.0217	-19.4		.96	-.038	.0317	.040	.421	.0193	-18.7								
	6.28	.165	.0386	.035	.218	.0213	-19.5		2.07	.014	.0317	.032	.388	.0186	-18.8	1.90	-4.07	-.184	.0407	.049	.300	.0092	-19.1
	8.40	.276	.0519	.028	.194	.0215	-19.5		4.18	.110	.0369	.017	.326	.0180	-19.0		-2.03	-.113	.0314	.032	.270	.0094	-19.2
	10.48	.387	.0801	.022	.175	.0216	-19.6		6.24	.204	.0484	.002	.270	.0173	-19.2		-1.01	-.079	.0289	.028	.255	.0094	-19.2
	12.59	.485	.1154	.020	.133	.0179	-19.7		8.34	.298	.0673	-.012	.218	.0168	-19.3		-.49	-.060	.0281	.025	.247	.0094	-19.2
	14.73	.606	.1639	.011	.129	.0241	-19.7		10.45	.394	.0934	-.027	.143	.0156	-19.5		.46	-.025	.0272	.020	.231	.0095	-19.3
	16.84	.705	.2180	.007	.125	.0263	-19.7		12.56	.485	.1257	-.040	.073	.0150	-19.7		.98	-.006	.0273	.018	.221	.0095	-19.3
	17.90	.748	.2463	.006	.131	.0281	-19.7		14.66	.570	.1639	-.053	.032	.0140	-19.9		2.07	.031	.0274	.013	.204	.0096	-19.3
									15.58	.620	.1860	-.060	.026	.0130	-19.9		4.08	.100	.0294	.003	.166	.0095	-19.5
0.90	-4.29	-.328	.0453	.069	.339	.0192	-19.2										6.12	.169	.0388	-.007	.119	.0094	-19.6
	-2.17	-.223	.0321	.061	.340	.0203	-19.2	1.50	-4.09	-.230	.0458	.061	.381	.0140	-18.8		8.16	.236	.0524	-.016	.082	.0094	-19.7
	-1.11	-.173	.0277	.057	.338	.0206	-19.2		-2.03	-.145	.0350	.048	.363	.0144	-18.8		10.20	.303	.0707	-.024	.046	.0092	-19.8
	-.59	-.149	.0261	.056	.338	.0209	-19.2		-1.01	-.103	.0315	.041	.351	.0145	-18.9		12.25	.367	.0931	-.031	.018	.0095	-19.9
	.35	-.107	.0244	.054	.341	.0217	-19.1		-.50	-.081	.0303	.038	.334	.0146	-18.9		14.29	.427	.1194	-.037	-.003	.0096	-20.0
	.89	-.082	.0237	.053	.339	.0220	-19.2		.50	-.039	.0288	.032	.330	.0146	-18.9		16.34	.487	.1512	-.041	-.023	.0099	-20.0
	1.97	-.030	.0230	.049	.317	.0220	-19.2		1.03	-.017	.0288	.029	.327	.0148	-19.0		17.36	.518	.1695	-.042	-.033	.0100	-80.1
	4.18	.076	.0255	.041	.275	.0218	-19.3		2.08	.029	.0292	.021	.295	.0144	-19.1								

NACA

[redacted]

TABLE VI.- CONCLUDED



(i) Nominal δ, -24°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	0.321	0.0443	0.060	0.896	0.0227	-23.4	0.90	4.17	0.066	0.0287	0.045	0.296	0.0240	-23.3	1.50	2.08	0.020	0.0322	0.026	0.348	0.0165	-22.9
	-2.17	-.231	.0337	.057	.891	.0237	-23.4		6.30	.185	.0391	.033	.242	.0223	-23.4		4.16	.107	.0376	.013	.278	.0160	-23.1
	-1.13	-.186	.0298	.055	.890	.0240	-23.5		8.37	.298	.0590	.024	.183	.0179	-23.5		6.16	.191	.0477	0	.228	.0158	-23.3
	-.60	-.167	.0282	.055	.890	.0241	-23.5		10.50	.406	.0905	.018	.163	.0171	-23.6		8.21	.274	.0641	-.012	.191	.0153	-23.4
	.33	-.126	.0259	.054	.888	.0246	-23.5										10.27	.359	.0864	-.026	.116	.0147	-23.6
	.89	-.105	.0250	.053	.887	.0248	-23.5	1.20	-4.09	-.309	.0547	.090	.508	.0227	-22.6		12.32	.441	.1141	-.037	.080	.0146	-23.7
	1.93	-.060	.0241	.052	.879	.0249	-23.5		-2.04	-.211	.0419	.075	.496	.0243	-22.6		14.38	.516	.1470	-.048	.054	.0143	-23.8
	4.10	.029	.0248	.049	.864	.0254	-23.5		-1.01	-.164	.0379	.068	.501	.0251	-22.6		16.43	.587	.1843	-.056	.025	.0135	-23.9
	6.21	.126	.0303	.045	.845	.0253	-23.5		-.50	-.141	.0362	.065	.497	.0254	-22.6								
	8.31	.229	.0448	.039	.820	.0249	-23.6		.48	-.093	.0343	.058	.488	.0260	-22.6	1.70	-4.08	-.214	.0346	.055	.381	.0013	-22.8
	10.41	.336	.0687	.035	.805	.0245	-23.6		1.00	-.068	.0338	.055	.486	.0261	-22.6		-2.03	-.136	.0367	.044	.351	.0013	-22.9
	12.47	.439	.1015	.036	.785	.0242	-23.6		2.05	-.016	.0339	.047	.467	.0256	-22.7		-1.01	-.100	.0333	.038	.332	.0013	-22.9
	14.59	.542	.1427	.036	.773	.0246	-23.7		4.16	.090	.0382	.029	.408	.0244	-22.8		-.50	-.078	.0319	.034	.320	.0013	-23.0
	16.70	.655	.1954	.033	.760	.0261	-23.7		6.17	.193	.0495	.012	.396	.0234	-23.0		.49	-.039	.0304	.029	.300	.0013	-23.0
	17.75	.704	.2229	.033	.749	.0259	-23.7		8.28	.299	.0694	-.004	.315	.0232	-23.1		1.02	-.018	.0301	.026	.298	.0013	-23.1
									10.29	.408	.0969	-.021	.262	.0219	-23.2		2.07	.023	.0309	.020	.281	.0014	-23.1
0.80	-4.28	-.325	.0471	.065	.926	.0207	-23.2		12.35	.519	.1321	-.039	.190	.0209	-23.4		4.10	.101	.0347	.006	.218	.0013	-23.3
	-2.18	-.229	.0354	.060	.921	.0221	-23.3		14.42	.615	.1720	-.046	.164	.0189	-23.5		6.14	.174	.0439	-.003	.169	.0013	-23.4
	-1.13	-.184	.0311	.058	.921	.0226	-23.3										8.19	.253	.0586	-.014	.129	.0013	-23.6
	-.60	-.161	.0293	.057	.922	.0227	-23.3	1.30	-4.18	-.270	.0554	.078	.484	.0198	-22.5		10.24	.327	.0765	-.024	.093	.0013	-23.7
	.46	-.120	.0267	.055	.917	.0234	-23.3		-2.03	-.181	.0437	.065	.481	.0211	-22.5		12.29	.400	.1033	-.033	.066	.0013	-23.7
	.99	-.096	.0260	.054	.914	.0234	-23.3		-1.00	-.136	.0395	.058	.473	.0213	-22.6		14.34	.468	.1327	-.042	.037	.0013	-23.8
	2.07	-.048	.0249	.051	.897	.0232	-23.3		-.49	-.112	.0379	.055	.467	.0215	-22.6		16.40	.533	.1670	-.048	.013	.0013	-23.9
	4.20	.047	.0311	.046	.875	.0239	-23.4		.44	-.069	.0362	.049	.454	.0217	-22.6		17.42	.567	.1864	-.051	.001	.0013	-23.9
	6.33	.156	.0349	.038	.845	.0231	-23.4		.96	-.345	.0359	.045	.452	.0219	-22.6								
	8.39	.268	.0538	.030	.813	.0227	-23.5		2.07	.005	.0360	.037	.421	.0212	-22.7	1.90	-4.10	-.190	.0450	.044	.341	.0111	-22.9
	10.46	.384	.0819	.023	.770	.0225	-23.6		4.16	.102	.0405	.021	.346	.0203	-22.9		-2.03	-.119	.0351	.035	.313	.0112	-23.0
	12.57	.484	.1167	.021	.736	.0180	-23.7		6.16	.195	.0513	.007	.299	.0199	-23.1		-1.01	-.095	.0320	.030	.298	.0113	-23.1
	14.71	.609	.1662	.010	.734	.0238	-23.7		8.21	.290	.0693	-.007	.255	.0192	-23.2		-.49	-.067	.0303	.028	.291	.0113	-23.1
	16.83	.715	.2213	.005	.723	.0250	-23.7		10.27	.386	.0943	-.028	.195	.0179	-23.4		.44	-.032	.0293	.023	.275	.0112	-23.1
	17.88	.760	.2489	.004	.715	.0256	-23.7		12.32	.479	.1255	-.037	.122	.0167	-23.6		.97	-.013	.0289	.021	.263	.0112	-23.2
									14.38	.564	.1622	-.049	.089	.0155	-23.7		2.05	.024	.0290	.016	.242	.0118	-23.2
0.90	-4.30	-.338	.0508	.070	.363	.0207	-23.1		16.15	.633	.1986	-.058	.065	.0143	-23.8		4.09	.093	.0327	.007	.195	.0110	-23.4
	-2.19	-.233	.0365	.063	.358	.0217	-23.1										6.09	.162	.0412	-.003	.144	.0109	-23.5
	-1.13	-.186	.0329	.061	.370	.0228	-23.1	1.50	-4.09	-.238	.0510	.066	.445	.0162	-22.6		8.11	.229	.0543	-.012	.108	.0108	-23.6
	-.60	-.162	.0310	.059	.371	.0231	-23.1		-2.03	-.152	.0395	.052	.422	.0165	-22.7		10.13	.294	.0718	-.020	.073	.0107	-23.7
	.35	-.118	.0285	.057	.361	.0237	-23.1		-1.01	-.111	.0357	.046	.407	.0167	-22.7		12.15	.362	.0940	-.029	.052	.0107	-23.8
	.88	-.094	.0280	.057	.362	.0242	-23.1		-.49	-.090	.0342	.043	.399	.0167	-22.7		14.29	.422	.1201	-.034	.024	.0107	-23.9
	1.95	-.042	.0265	.052	.343	.0241	-23.1		.49	-.048	.0327	.036	.384	.0168	-22.8		16.33	.482	.1520	-.039	.003	.0110	-23.9
									1.02	-.026	.0325	.033	.378	.0170	-22.8		17.36	.511	.1692	-.040	-.005	.0111	-24.0

(j) Nominal δ, -28°

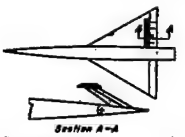
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-0.62	0.176	0.0321	0.058	0.334	0.0253	-27.4	1.90	6.30	0.170	0.0416	0.037	0.088	0.0238	-27.3	1.50	4.16	0.099	0.0402	0.016	0.266	0.0180	-27.1
	.43	-.134	.0291	.057	.325	.0256	-27.4		8.38	.291	.0604	.026	.021	.0198	-27.4		6.16	.184	.0496	.002	.229	.0177	-27.2
	.95	-.113	.0282	.057	.324	.0256	-27.4		10.52	.401	.0911	.020	.019	.0173	-27.5		8.21	.267	.0655	-.009	.209	.0170	-27.3
	1.96	-.069	.0269	.055	.310	.0252	-27.4										10.27	.352	.0881	-.021	.164	.0167	-27.4
	4.08	.021	.0273	.051	.291	.0255	-27.4	1.20	-4.37	-.320	.0637	- - -					12.32	.434	.1150	-.034	.131	.0161	-27.5
	6.21	.114	.0324	.048	.282	.0262	-27.5		-2.04	-.221	.0476	.080	.528	.0261	-26.5		14.38	.509	.1472	-.044	.103	.0159	-27.6
	8.31	.220	.0464	.042	.261	.0259	-27.5		-1.01	-.176	.0437	.074	.540	.0274	-26.5		16.43	.582	.1848	-.053	.061	.0155	-27.8
	10.42	.328	.0698	.038	.241	.0256	-27.5		-.50	-.152	.0419	.071	.534	.0275	-26.5								
	12.48	.432	.1018	.036	.214	.0243	-27.6		.48	-.105	.0398	.064	.523	.0261	-26.5	1.70	-4.08	-.220	.0512	.059	.405	.0148	-26.7
	14.60	.542	.1439	.035	.200	.0253	-27.6		.99	-.080	.0392	.060	.519	.0263	-26.5		-2.03	-.144	.0410	.048	.393	.0152	-26.7
	16.72	.654	.1959	.033	.189	.0258	-27.6		2.05	-.089	.0387	.053	.498	.0260	-26.6		-1.01	-.106	.0375	.043	.378	.0154	-26.8
	17.77	.701	.2223	.033	.178	.0256	-27.6		4.07	.080	.0415	.034	.415	.0261	-26.8		-.50	-.065	.0359	.039	.369	.0154	-26.8
	-4.27	-.325	.0485	.063	.335	- - -	-27.4		6.16	.184	.0580	.016	.354	.0252	-27.0		.49	-.047	.0341	.033	.348	.0152	-26.9
	-2.17	-.236	.0376	.059	.328	- - -	-27.4		8.22	.296	.0714	-.002	.289	.0248	-27.0		1.02	-.026	.0335	.030	.338	.0153	-26.9
	-1.14	-.196	.0338	.059	.332	- - -	-27.4		10.29	.399	.0980	-.017	.286	.0235	-27.2		2.07	.016	.0337	.024	.320	.0158	-27.0
									12.35	.503	.1316	-.034	.234	.0238	-27.3		4.15	.054	.0376	.012	.283	.0169	-27.1
0.80	-4.29	-.332	.0523	.069	.357	.0218	-27.2		14.42	.605	.1719	-.042	.204	.0205	-27.4		6.15	.171	.0463	.001	.209	.0148	-27.3
	-2.18	-.237	.0398	.064	.351	.0232	-27.2										8.20	.246	.0606	-.010	.170	.0145	-27.4
	-1.13	-.193	.0354	.062	.352	.0239	-27.2	1.30	-4.09	-.278	.0598	.081	.194	.0216	-26.5		10.24	.321	.0796	-.021	.127	.0141	-27.6
	-.61	-.170	.0335	.061	.351	.0242	-27.2		-2.04	-.188	.0483	.067	.468	.0229	-26.5		12.29	.394	.1036	-.031	.099	.0141	-27.6
	.43	-.130	.0309	.059	.348	.0247	-27.2		-1.01	-.149	.0446	.061	.491	.0234	-26.5		14.35	.462	.1328	-.039	.078	.0141	-27.7
	.96	-.106	.0299	.058	.345	.0249	-27.2		-.50	-.122	.0428	.058	.484	.0234	-26.5		16.40	.527	.1668	-.046	.049	.0141	-27.8
	1.98	-.059	.0285	.055	.325	.0255	-27.2		.48	-.077	.0406	.051	.464	.0238	-26.6		17.43	.561	.1861	-.048	.035	.0138	-27.8
	4.12	.036	.0292	.050	.304	.0254	-27.3		1.01	-.054	.0401	.048	.459	.0240	-26.6								
	6.26	.144	.0368	.042	.269	.0245	-27.4		2.07	-.003	.0396	.040	.424	.0231	-26.7	1.90	-4.09	-.197	.0503	.045	.393	.0129	-26.8
	8.39	.260	.0550	.033	.237	.0235	-27.4		4.16	.095	.0431	.023	.340	.0220	-27.0		-2.04	-.127	.0395	.034	.357	.0129	-26.9
	10.47	.377	.0819	.024	.183	.0226	-27.5		6.17	.188	.0531	.009	.288	.0215	-27.1		-1.01	-.092	.0358	.032	.340	.0129	-26.9
	12.59	.479	.1162	.022	.147	.0181	-27.6		8.23	.282	.0709	-.004	.264	.0209	-27.2		-.50	-.074	.0344	.030	.329	.0128	-27.0
	14.72	.602	.1645	.011	.139	.0235	-27.6		10.29	.377	.0952	-.018	.218	.0196	-27.3		.49	-.039	.0324	.025	.304	.0127	-27.0
	16.85	.709	.2193	.006	.132	.0250	-27.7		12.34	.468	.1262	-.031	.170	.0187	-27.5		1.01	-.020	.0318	.023	.293	.0127	-27.1
	17.91	.758	.2476	.003	.119	.0249	-27.7		14.40	.554	.1630	-.043	.146	.0176	-27.5		2.06	.017	.0315	.019	.268	.0127	-27.1
									16.46	.630	.2035	-.052	.101	.0183	-27.7		4.14	.088	.0351	.010	.223	.0126	-27.3
0.90	-4.31	-.343	.0569	.076	.040	.0216	-27.0										6.13	.156	.0429	0	.176	.0125	-27.4
	-2.20	-.243	.0427	.069	.040	.0232	-27.0	1.50	-4.09	-.243	.0544	.067	.439	.0175	-26.6		8.17	.224	.0537	-.009	.143	.0124	-27.5
	-1.14	-.193	.0377	.066	.041	.0239	-27.0		-2.04	-.159	.0434	.055	.418	.0181	-26.7		10.21	.290	.0724	-.018	.109	- - -	-27.6
	-.61	-.169	.0358	.064	.041	.0242	-27.0		-1.01	-.119	.0396	.049	.408	.0183	-26.7		12.26	.357	.0943	-.025	.087	- - -	-27.7
	.44	-.128	.0331	.062	.040	.0248	-27.0		-.50	-.097	.0380	.046	.400	.0184	-26.7		14.31	.416	.1200	-.031	.061	- - -	-27.8
	.92	-.103	.0321	.061	.039	.0248	-27.0		.49	-.056	.0362	.039	.387	.0185	-26.8		16.36	.477	.1515	-.035	.039	- - -	-27.8
	1.99	-.054	.0318	.058	.039	.0248	-27.0		1.02	-.034	.0359	.036	.383	.0187	-26.8		17.39	.506	.1689	-.036	.032	- - -	-27.9
	4.16	.053	.0323	.049	.034	.0255	-27.1		2.07	.012	.0359	.029	.350	.0183	-26.9								

NACA

CONFIDENTIAL

TABLE VII.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 67-PERCENT-SPAN PADDLE BALANCE MOUNTED ON THE UPPER SURFACE OF THE FLAP FORWARD OF THE HINGE LINE. DATA FOR ONE FLAP.

$R = 4.4 \times 10^6$



(a) Nominal δ, 2°

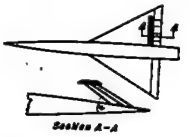
M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.17	-0.169	0.0157	-0.002	0.004	-0.0045	1.9
	-2.06	-.074	.0101	-.006	0	-.0046	1.9
	-1.06	-.029	.0084	-.009	-.001	-.0048	1.9
	-.21	-.007	.0081	-.010	-.001	-.0048	1.9
	.49	.037	.0085	-.012	-.003	-.0050	1.8
	1.02	.061	.0089	-.012	-.004	-.0050	1.8
	2.09	.105	.0110	-.014	-.006	-.0051	1.8
	4.17	.197	.0176	-.018	-.018	-.0053	1.8
	6.27	.293	.0309	-.023	-.040	-.0053	1.8
	8.36	.393	.0541	-.026	-.064	-.0038	1.7
	10.47	.488	.0838	-.025	-.106	-.0027	1.7
	12.57	.590	.1233	-.023	-.135	-.0030	1.6
	14.68	.689	.1699	-.022	-.163	-.0025	1.6
	16.80	.807	.2296	-.025	-.194	.0017	1.9
	17.85	.857	.2614	-.024	-.205	.0020	1.9
0.80	-4.19	-.175	.0180	0	.013	-.0049	1.9
	-2.08	-.078	.0120	-.007	-.001	-.0047	1.9
	-1.06	-.031	.0103	-.010	-.007	-.0046	1.8
	-.21	-.007	.0099	-.011	-.007	-.0046	1.8
	.50	.039	.0105	-.013	-.013	-.0046	1.8
	1.04	.064	.0113	-.014	-.014	-.0046	1.8
	2.09	.106	.0135	-.017	-.019	-.0047	1.8
	4.20	.207	.0219	-.022	-.038	-.0047	1.8
	6.31	.312	.0373	-.026	-.071	-.0035	1.7
	8.44	.413	.0614	-.030	-.108	-.0010	1.6
	10.53	.498	.0923	-.024	-.140	-.0016	1.5
	12.69	.604	.1347	-.032	-.166	-.0019	1.5
	14.77	.717	.1899	-.038	-.196	-.0020	1.4
	16.87	.809	.2411	-.040	-.218	-.0013	1.4
	17.94	.853	.2717	-.041	-.244	.0003	1.3
0.90	-4.11	-.190	.0196	.003	-.007	.0045	1.8
	-2.06	-.086	.0127	-.005	-.016	.0044	1.8
	-1.06	-.037	.0100	-.009	-.022	.0044	1.8
	-.48	-.018	.0095	-.011	-.022	.0043	1.8
	.48	.037	.0098	-.013	-.029	.0043	1.8
	1.06	.061	.0105	-.015	-.037	.0043	1.8
	2.04	.111	.0131	-.018	-.048	.0042	1.7
	4.23	.213	.0225	-.025	-.081	.0035	1.7
0.90	6.26	0.318	0.0387	-0.030	-0.104	0.0029	1.6
	8.22	.408	.0622	-.031	-.134	.0022	1.5
	10.18	.517	.0977	-.035	-.180	.0011	1.4
1.20	-4.10	-.206	.0286	.029	-.035	-.0012	1.8
	-2.05	-.106	.0198	.013	-.054	-.0008	1.7
	-1.01	-.051	.0173	.006	-.084	-.0008	1.6
	-.49	-.032	.0167	.003	-.091	-.0007	1.6
	.47	-.017	.0165	.004	-.107	-.0008	1.6
	.99	.043	.0172	.006	-.111	-.0008	1.5
	2.03	.091	.0195	-.015	-.124	-.0008	1.5
	4.09	.192	.0283	-.030	-.163	-.0009	1.4
	6.14	.296	.0439	-.046	-.198	-.0010	1.3
	8.20	.398	.0672	-.063	-.224	-.0005	1.2
	10.26	.501	.0980	-.078	-.268	-.0004	1.1
	12.32	.615	.1375	-.097	-.317	-.0002	1.0
1.30	-4.09	-.193	.0301	.028	.008	-.0014	1.9
	-2.04	-.098	.0216	.014	-.023	-.0009	1.8
	-1.01	-.052	.0193	.007	-.042	-.0007	1.7
	-.49	-.028	.0185	.004	-.050	-.0007	1.7
	.46	.015	.0185	-.003	-.070	-.0006	1.6
	1.08	.040	.0192	-.006	-.085	-.0003	1.6
	2.04	.087	.0215	-.013	-.105	-.0008	1.5
	4.09	.179	.0299	-.027	-.150	.0001	1.4
	6.14	.274	.0447	-.041	-.197	.0001	1.3
	8.19	.370	.0667	-.054	-.233	0	1.2
	10.25	.459	.0948	-.068	-.297	0	1.1
	12.30	.548	.1291	-.080	-.302	-.0001	1.0
	14.36	.633	.1700	-.091	-.343	-.0006	.9
	16.41	.712	.2154	-.100	-.385	-.0010	.7
	17.44	.749	.2399	-.103	-.401	-.0014	.7
1.50	-4.10	-.176	.0281	.026	.016	-.0009	1.9
	-2.04	-.091	.0198	.013	-.015	-.0007	1.8
	-1.01	-.047	.0175	.007	-.034	-.0005	1.8
	-.49	-.026	.0168	.004	-.043	-.0004	1.7
	.47	.015	.0167	-.003	-.061	-.0004	1.7
	.99	.038	.0176	-.006	-.071	-.0001	1.6
	2.04	.081	.0196	-.012	-.092	-.0001	1.6
1.50	4.09	0.166	0.0276	-0.025	-0.133	0.0001	1.4
	6.13	.252	.0413	-.037	-.174	.0004	1.3
	8.19	.337	.0631	-.049	-.211	.0003	1.2
	10.24	.417	.0865	-.061	-.245	.0004	1.1
	12.28	.496	.1172	-.072	-.273	.0005	1.0
	14.34	.569	.1527	-.081	-.305	.0008	.9
	16.39	.643	.1943	-.089	-.340	.0005	.8
	17.43	.679	.2175	-.093	-.360	.0003	.8
1.70	-4.08	-.162	.0266	.024	.039	-.0005	2.0
	-2.03	-.085	.0188	.012	.006	-.0002	1.9
	-1.01	-.045	.0169	.007	-.010	-.0001	1.8
	-.47	-.025	.0163	.004	-.021	0	1.8
	.46	.014	.0163	.002	-.040	.0001	1.7
	.99	.035	.0167	-.005	-.051	.0002	1.7
	2.03	.074	.0187	-.011	-.068	.0003	1.6
	4.08	.152	.0260	-.022	-.107	.0006	1.5
	6.13	.228	.0386	-.033	-.144	.0009	1.4
	8.18	.304	.0563	-.043	-.180	.0009	1.3
	10.22	.375	.0791	-.053	-.216	.0016	1.2
	12.26	.446	.1067	-.062	-.244	.0023	1.1
	14.32	.513	.1390	-.069	-.274	.0016	1.0
	16.36	.577	.1756	-.075	-.301	.0016	.9
	17.38	.609	.1959	-.077	-.318	.0014	.9
1.90	-4.07	-.148	.0850	.020	.050	-.0004	2.0
	-2.03	-.077	.0188	.010	.018	-.0003	1.9
	-.99	-.041	.0170	.005	.001	-.0001	1.9
	-.47	-.023	.0169	.003	-.006	0	1.8
	.46	.013	.0163	.002	-.024	0	1.8
	.98	.032	.0167	.000	-.032	0	1.8
	2.03	.068	.0181	-.009	-.049	.0002	1.7
	4.07	.138	.0248	-.019	-.083	.0004	1.6
	6.11	.207	.0360	-.028	-.119	.0007	1.5
	8.16	.275	.0520	-.036	-.152	.0010	1.4
	10.19	.340	.0725	-.044	-.183	.0009	1.3
	12.24	.402	.0968	-.051	-.210	.0013	1.2
	14.28	.461	.1255	-.057	-.237	.0013	1.1
	16.33	.520	.1584	-.061	-.263	.0017	1.1
	17.35	.550	.1774	-.062	-.278	.0018	1.0

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.18	-0.191	0.0186	0.006	-0.016	-0.0007	-0.1
	-2.07	-.096	.0122	.002	-.021	-.0010	-.1
	-1.03	-.055	.0107	0	-.024	-.0010	-.1
	-.50	-.031	.0101	-.001	-.024	-.0010	-.1
	.47	.013	.0101	-.003	-.027	-.0011	-.1
	.99	.037	.0105	-.004	-.025	-.0014	-.1
	2.05	.082	.0121	-.006	-.027	-.0019	-.1
	4.16	.172	.0181	-.010	-.033	-.0018	-.1
	6.25	.270	.0302	-.015	-.038	-.0017	-.2
	8.35	.369	.0503	-.019	-.060	-.0007	-.2
	10.44	.464	.0786	-.017	-.112	.0009	-.2
	12.53	.569	.1177	-.016	-.132	.0008	-.3
	14.66	.672	.1639	-.015	-.153	.0008	-.3
	16.79	.787	.2224	-.019	-.180	.0047	-.4
	17.84	.838	.2535	-.018	-.189	.0047	-.4
0.80	-4.21	-.199	.0200	.009	-.009	-.0009	-.1
	-2.10	-.099	.0126	.002	-.020	-.0011	-.1
	-1.03	-.053	.0107	0	-.024	-.0011	-.1
	-.50	-.030	.0104	-.001	-.020	-.0008	-.1
	.47	.016	.0105	-.004	-.023	-.0010	-.1
	1.01	.041	.0110	-.005	-.027	-.0010	-.1
	2.08	.088	.0128	-.007	-.032	-.0011	-.1
	4.18	.185	.0200	-.013	-.055	-.0009	-.2
	6.30	.285	.0343	-.018	-.082	.0003	-.2
	8.41	.391	.0579	-.022	-.095	.0021	-.3
	10.51	.477	.0879	-.017	-.135	.0012	-.3
	12.63	.585	.1295	-.025	-.148	.0007	-.4
	14.75	.697	.1794	-.030	-.170	.0008	-.4
	16.87	.788	.2340	-.032	-.195	.0016	-.5
	17.91	.829	.2628	-.032	-.218	.0023	-.5
0.90	-4.24	-.215	.0231	.013	-.009	-.0008	-.1
	-2.11	-.110	.0142	.005	-.014	-.0004	-.1
	-1.05	-.059	.0121	.001	-.016	-.0005	-.1
	-.52	-.034	.0114	-.001	-.017	-.0004	-.1
	.47	.014	.0115	-.003	-.024	-.0004	-.1
	1.01	.039	.0121	-.004	-.027	-.0005	-.1
	2.09	.089	.0140	-.008	-.036	-.0004	-.1
	4.20	.191	.0220	-.015	-.063	.0002	-.2
0.90	6.32	0.297	0.0377	-0.020	-0.089	0.0013	-0.3
	8.44	.397	.0612	-.022	-.114	.0010	-.3
	10.55	.499	.0950	-.025	-.161	.0018	-.4
	12.67	.603	.1370	-.035	-.205	.0014	-.5
1.20	-4.10	-.216	.0296	.034	0	.0009	-.1
	-2.05	-.115	.0203	.019	-.025	.0013	-.1
	-1.02	-.067	.0177	.012	-.048	.0015	-.2
	-.49	-.041	.0169	.008	-.049	.0016	-.2
	.52	.009	.0168	.001	-.069	.0017	-.2
	.99	.034	.0173	-.003	-.072	.0017	-.2
	2.04	.082	.0192	-.009	-.087	.0017	-.3
	4.09	.181	.0274	-.025	-.123	.0014	-.4
	6.14	.284	.0425	-.041	-.153	.0014	-.5
	8.20	.393	.0661	-.057	-.178	.0021	-.6
	10.26	.494	.0966	-.071	-.225	.0023	-.7
	12.32	.600	.1345	-.087	-.277	.0026	-.8
	14.40	.697	.1798	-.098	-.305	.0004	-.9
1.30	-4.10	-.200	.0311	.032	.035	.0003	0
	-2.04	-.106	.0223	.018	.004	.0008	0
	-1.01	-.060	.0197	.011	-.008	.0013	-.1
	-.48	-.036	.0190	.008	-.017	.0012	-.1
	.52	.011	.0189	.001	-.040	.0014	-.2
	.99	.033	.0194	-.002	-.050	.0015	-.2
	2.04	.080	.0215	-.009	-.071	.0015	-.3
	4.09	.173	.0296	-.023	-.115	.0019	-.4
	6.15	.267	.0440	-.037	-.161	.0019	-.5
	8.20	.363	.0657	-.050	-.200	.0015	-.6
	10.25	.454	.0931	-.063	-.225	.0016	-.7
	12.30	.540	.1271	-.075	-.253	.0017	-.8
	14.36	.625	.1676	-.086	-.303	.0011	-.9
	16.41	.704	.2123	-.094	-.343	.0010	-1.1
	17.45	.743	.2377	-.098	-.361	.0001	-1.1
1.50	-4.09	-.182	.0890	.089	.088	.0005	0
	-2.05	-.096	.0207	.016	.000	.0009	-.1
	-1.00	-.054	.0183	.010	-.026	.0009	-.1
	-.48	-.031	.0174	.007	-.024	.0011	-.1
	.47	.012	.0173	0	-.044	.0012	-.2
	.99	.034	.0179	-.003	-.054	.0013	-.2
1.50	2.04	0.077	0.0199	-0.009	-0.075	0.0012	-0.3
	4.09	.161	.0276	-.021	-.114	.0015	-.4
	6.14	.246	.0409	-.034	-.138	.0017	-.5
	8.19	.331	.0603	-.046	-.186	.0017	-.6
	10.24	.411	.0854	-.058	-.221	.0017	-.7
	12.29	.492	.1159	-.067	-.246	.0020	-.8
	14.34	.564	.1511	-.077	-.275	.0021	-.9
	16.40	.637	.1924	-.085	-.308	.0018	-1.0
	17.42	.673	.2153	-.089	-.329	.0009	-1.1
1.70	-4.09	-.167	.0277	.027	.040	.0005	0
	-2.04	-.089	.0196	.015	.011	.0010	0
	-1.01	-.050	.0176	.010	-.004	.0011	-.1
	-.48	-.030	.0170	.007	-.012	.0012	-.1
	.47	.010	.0169	0	-.031	.0013	-.2
	.99	.031	.0173	-.003	-.040	.0014	-.2
	2.03	.069	.0190	-.008	-.059	.0014	-.2
	4.08	.146	.0260	-.019	-.096	.0017	-.3
	6.12	.224	.0382	-.030	-.132	.0021	-.5
	8.17	.299	.0555	-.040	-.166	.0021	-.6
	10.22	.372	.0784	-.052	-.196	.0021	-.7
	12.26	.441	.1067	-.059	-.222	.0024	-.7
	14.31	.508	.1371	-.066	-.251	.0026	-.8
	16.37	.573	.1741	-.072	-.276	.0028	-.9
	17.39	.605	.1942	-.075	-.292	.0025	-1.0
1.90	-4.08	-.158	.0273	.022	.050	.0007	0
	-2.03	-.088	.0197	.018	.020	.0009	0
	-1.01	-.053	.0178	.007	.005	.0010	0
	-.49	-.035	.0172	.004	-.002	.0010	-.1
	.46	.008	.0169	.001	-.017	.0011	-.1
	.99	.026	.0172	-.002	-.028	.0011	-.1
	2.03	.061	.0186	-.007	-.043	.0013	-.2
	4.07	.131	.0249	-.016	-.075	.0015	-.3
	6.12	.199	.0358	-.025	-.109	.0018	-.4
	8.15	.266	.0514	-.034	-.139	.0020	-.5
	10.20	.332	.0716	-.041	-.169	.0020	-.6
	12.24	.394	.0958	-.049	-.194	.0023	-.6
	14.28	.454	.1240	-.054	-.218	.0025	-.7
	16.33	.513	.1570	-.058	-.243	.0028	-.8
	17.36	.542	.1758	-.059	-.258	.0029	-.8

NACA

TABLE VII.- CONTINUED



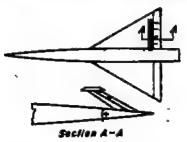
(c) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.20	-0.211	0.0198	0.015	-0.016	0.0031	-2.3	0.90	6.31	0.279	0.0344	-0.010	-0.074	0.0051	-2.4	1.50	2.04	0.074	0.0201	-0.006	-0.052	—	-2.4
	-2.09	-.116	.0132	.010	-.024	.0026	-2.3		8.43	.373	.0568	-.010	-.092	.0041	-2.5		4.09	.159	.0277	-.019	-.091	—	-2.5
	-1.04	-.073	.0114	.008	-.028	.0027	-2.3		10.55	.484	.0907	-.016	-.132	.0042	-2.6		6.15	.245	.0408	-.031	-.131	—	-2.7
	-.52	-.051	.0107	.008	-.030	.0025	-2.3		12.67	.591	.1335	-.026	-.167	.0040	-2.7		8.20	.331	.0603	-.043	-.164	—	-2.8
	.46	.003	.0103	.006	-.033	.0025	-2.3										10.25	.411	.0852	-.054	-.193	—	-2.9
	1.03	.022	.0102	.006	-.034	.0024	-2.3	1.20	-4.10	-.225	.0297	.039	.048	—	-2.1		12.31	.492	.1158	-.069	-.217	—	-2.9
	2.10	.067	.0126	.003	-.040	.0021	-2.3		-2.05	-.124	.0201	.024	.019	—	-2.2		14.36	.567	.1514	-.074	-.243	—	-3.0
	4.15	.156	.0173	-.001	-.045	.0020	-2.3		-1.02	-.073	.0173	.017	.005	—	-2.2		16.41	.642	.1926	-.082	-.275	—	-3.1
	6.24	.254	.0277	-.006	-.072	.0020	-2.4		-.50	-.048	.0166	.013	-.004	—	-2.3		17.43	.676	.2151	-.086	-.296	—	-3.2
	8.34	.354	.0488	-.010	-.681	.0027	-2.4		.51	.003	.0163	.006	-.020	—	-2.3								
	10.45	.452	.0786	-.010	-.103	.0037	-2.4		1.05	.029	.0168	.003	-.027	—	-2.3	1.70	-4.09	-.173	.0287	.029	.053	—	-2.1
	12.54	.554	.1163	-.009	-.112	.0029	-2.5		2.04	.078	.0187	-.004	-.042	—	-2.4		-2.04	-.095	.0203	.018	.026	—	-2.2
	14.66	.655	.1626	-.009	-.130	.0027	-2.5		4.10	.171	.0267	-.019	-.076	—	-2.5		-1.01	-.056	.0180	.012	.010	—	-2.2
	16.78	.775	.2203	-.012	-.153	.0062	-2.5		6.15	.281	.0415	-.035	-.106	—	-2.6		-.49	-.035	.0174	.009	.001	—	-2.2
	17.83	.828	.2517	-.012	-.162	.0062	-2.5		8.22	.389	.0648	-.051	-.129	—	-2.6		.52	.009	.0171	.003	-.018	—	-2.3
									10.28	.493	.0954	-.065	-.177	—	-2.8		1.00	.055	.0175	0	-.027	—	-2.3
0.80	-4.22	-.223	.0217	.018	.007	—	-2.2		12.34	.597	.1330	-.080	-.219	—	-2.9		2.04	.068	.0191	-.005	-.043	—	-2.4
	-2.12	-.123	.0138	.012	-.014	—	-2.3										4.09	.146	.0261	-.017	-.080	—	-2.5
	-1.05	-.077	.0113	.010	-.033	—	-2.3	1.30	-4.10	-.209	.0317	.037	.072	.0018	-2.0		6.13	.222	.0381	-.028	-.114	—	-2.6
	-.51	-.054	.0102	.009	-.033	—	-2.3		-2.04	-.114	.0226	.022	.043	.0024	-2.1		8.18	.299	.0556	-.038	-.148	—	-2.7
	.56	-.006	.0099	.006	-.033	—	-2.3		-1.02	-.062	.0196	.016	.029	.0028	-2.2		10.22	.372	.0780	-.047	-.175	—	-2.8
	1.04	.024	.0101	.006	-.033	—	-2.3		-.48	-.043	.0191	.012	.019	.0027	-2.2		12.27	.444	.1054	-.057	-.197	—	-2.9
	2.06	.071	.0115	.002	-.037	—	-2.3		.52	.007	.0188	.006	0	.0029	-2.3		14.32	.510	.1379	-.064	-.223	—	-3.0
	4.18	.166	.0180	-.004	-.057	—	-2.4		1.00	.031	.0193	.002	-.010	.0030	-2.3		16.38	.575	.1752	-.070	-.248	—	-3.0
	6.29	.270	.0317	-.010	-.065	—	-2.4		2.05	.077	.0215	-.005	-.030	.0031	-2.3		17.32	.609	.1958	-.072	-.262	—	-3.1
	8.41	.376	.0559	-.043	-.087	—	-2.4		4.09	.169	.0293	-.019	-.073	.0033	-2.5								
	10.51	.481	.0843	-.009	-.128	—	-2.5		6.15	.265	.0441	-.032	-.119	.0032	-2.6	1.90	-4.07	-.157	.0278	.025	.056	.0014	-2.1
	12.62	.578	.1266	-.017	-.117	—	-2.5		8.21	.362	.0654	-.046	-.159	.0030	-2.7		-2.04	-.087	.0202	.015	.031	.0017	-2.2
	14.74	.675	.1753	-.021	-.136	—	-2.6		10.26	.456	.0928	-.059	-.183	.0031	-2.8		-1.00	-.052	.0181	.010	.019	.0018	-2.2
	16.86	.776	.2319	-.024	-.164	—	-2.6		12.32	.543	.1265	-.070	-.221	.0033	-2.9		-.48	-.033	.0174	.008	.011	.0018	-2.2
	17.92	.822	.2618	-.025	-.185	—	-2.7		14.37	.628	.1643	-.080	-.260	.0026	-3.0		.51	.006	.0171	.003	-.007	.0019	-2.3
									16.44	.707	.2115	-.090	-.296	.0026	-3.1		.98	.025	.0173	0	-.015	.0020	-2.3
0.90	-4.24	-.234	.0234	.023	-.007	.0034	-2.3		17.46	.745	.2356	-.094	-.318	.0017	-3.2		2.03	.060	.0188	-.005	-.031	.0020	-2.4
	-2.12	-.128	.0135	.015	-.017	.0033	-2.3										4.07	.130	.0249	-.014	-.062	.0023	-2.4
	-1.06	-.079	.0114	.012	-.016	.0036	-2.3	1.50	-4.09	-.188	.0297	.033	.056	—	-2.4		6.12	.199	.0358	-.023	-.092	.0025	-2.5
	-.52	-.054	.0105	.010	-.017	.0037	-2.3		-2.04	-.103	.0210	.020	.022	—	-2.3		8.16	.267	.0515	-.032	-.123	.0027	-2.6
	.46	-.002	.0102	.008	-.020	.0037	-2.3		-.94	-.060	.0185	.013	.008	—	-2.3		10.21	.332	.0715	-.039	-.150	.0026	-2.7
	1.05	.025	.0108	.007	-.022	.0036	-2.3		-.45	-.036	.0175	.010	0	—	-2.3		12.25	.397	.0960	-.047	-.171	.0030	-2.8
	2.08	.073	.0123	.003	-.031	.0036	-2.3		.53	.010	.0176	.004	-.021	—	-2.3		14.29	.457	.1241	-.052	-.194	.0031	-2.9
	4.20	.174	.0197	-.004	-.051	.0039	-2.4		1.00	.030	.0181	.001	-.030	—	-2.3		16.33	.526	.1604	-.057	-.220	.0034	-2.9
																	17.37	.555	.1800	-.058	-.235	.0036	-3.0

(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.21	-0.230	0.0229	0.022	0.007	----	-4.0	0.90	8.42	0.361	0.0566	-0.003	-0.059	----	-4.2	1.50	4.09	0.150	0.0271	-0.015	-0.070	0.0039	-4.3
	-2.11	-.134	.0148	.018	-.004	.0037	-4.1		10.53	.465	.0895	-.008	-.078	----	-4.2		6.14	.231	.0397	-.026	-.107	.0041	-4.4
	-1.06	-.093	.0123	.016	-.013	.0037	-4.1		12.65	.567	.1303	-.017	-.086	----	-4.3		8.20	.321	.0598	-.039	-.136	.0040	-4.5
	-.53	-.066	.0113	.015	-.019	.0038	-4.1										10.25	.401	.0830	-.051	-.162	.0040	-4.6
	.44	-.024	.0108	.013	-.025	.0037	-4.1	1.20	-4.10	-.233	.0315	.044	.091	.0045	-3.8		12.29	.430	.1125	-.061	-.184	.0044	-4.6
	1.01	-.002	.0108	.013	-.029	.0037	-4.1		-2.04	-.138	.0214	.029	.063	.0031	-3.9		14.35	.556	.1452	-.071	-.213	.0044	-4.7
	2.07	.044	.0117	.011	-.037	.0036	-4.1		-1.02	-.081	.0185	.022	.030	.0033	-3.9		16.41	.629	.1866	-.079	-.243	.0040	-4.8
	4.14	.134	.0159	.007	-.050	.0032	-4.1		-.49	-.057	.0175	.018	.041	.0033	-3.9		17.43	.665	.2108	-.083	-.263	.0031	-4.9
	6.23	.229	.0259	.002	-.071	.0035	-4.2		.45	-.008	.0171	.011	.024	.0033	-4.0								
	8.33	.329	.0471	-.002	-.074	.0060	-4.2		1.04	.019	.0175	.008	.016	.0037	-4.0	1.70	-4.09	-.176	.0297	.032	.064	.0024	-3.9
	10.43	.429	.0741	-.003	-.087	.0067	-4.2		2.04	.067	.0191	.001	.000	.0036	-4.1		-2.05	-.098	.0211	.020	.036	.0029	-3.9
	12.54	.534	.1118	-.003	-.099	.0052	-4.2		4.09	.164	.0265	-.014	-.033	.0037	-4.2		-1.01	-.059	.0186	.015	.021	.0030	-4.0
	14.65	.635	.1563	-.003	-.108	.0054	-4.2		6.15	.266	.0410	-.030	-.064	.0036	-4.2		-.48	-.038	.0179	.012	.013	.0031	-4.0
	16.78	.762	.2167	-.007	-.132	.0089	-4.3		8.21	.376	.0639	-.045	-.087	.0065	-4.3		.51	.001	.0176	.006	-.005	.0032	-4.1
	17.83	.803	.2436	-.007	-.138	.0087	-4.3		10.27	.475	.0929	-.059	-.132	.0070	-4.4		1.03	.023	.0178	.003	-.015	.0033	-4.1
									12.33	.582	.1301	-.074	-.169	.0074	-4.5		2.03	.061	.0192	-.003	-.032	.0034	-4.2
0.80	-4.24	-.238	.0242	.026	.032	.0052	-4.0		14.41	.673	.1753	-.079	-.190	.0056	-4.6		4.06	.138	.0258	-.014	-.065	.0036	-4.3
	-2.13	-.140	.0152	.020	.019	.0060	-4.0										6.13	.216	.0376	-.025	-.097	.0039	-4.4
	-1.08	-.093	.0125	.017	.013	.0060	-4.0	1.30	-4.02	-.131	.0269	.048	.104	.0033	-3.7		8.18	.291	.0546	-.035	-.128	.0039	-4.5
	-.54	-.070	.0115	.016	.010	.0062	-4.0		-2.05	-.120	.0236	.026	.076	.0040	-3.8		10.23	.364	.0765	-.045	-.154	.0038	-4.5
	.43	-.022	.0107	.014	.004	.0062	-4.0		-1.02	-.073	.0195	.019	.062	.0043	-3.9		12.27	.435	.1036	-.058	-.175	.0042	-4.6
	1.02	.002	.0107	.013	0	.0061	-4.1		-.50	-.042	.0200	.016	.054	.0044	-3.9		14.33	.502	.1346	-.061	-.196	.0044	-4.7
	2.10	.050	.0117	.010	-.008	.0059	-4.1		.47	-.003	.0195	.010	.037	.0045	-3.9		16.37	.568	.1711	-.067	-.221	.0045	-4.7
	4.16	.145	.0171	.004	-.023	.0059	-4.1		1.04	.021	.0199	.006	.028	.0046	-4.0		17.41	.601	.1914	-.069	-.235	.0042	-4.8
	6.28	.245	.0301	-.002	-.033	.0064	-4.1		2.05	.067	.0217	-.001	.009	.0047	-4.0								
	8.38	.351	.0519	-.006	-.056	.0063	-4.2		4.09	.159	.0287	-.015	-.036	.0047	-4.2	1.90	-4.06	-.159	.0284	.027	.060	.0022	-3.9
	10.50	.442	.0813	-.002	-.094	.0067	-4.3		6.14	.252	.0418	-.028	-.077	.0047	-4.3		-2.04	-.089	.0208	.017	.037	.0025	-3.9
	12.60	.555	.1221	-.010	-.094	.0061	-4.3		8.21	.342	.0633	-.042	-.114	.0045	-4.4		-1.00	-.054	.0186	.012	.023	.0026	-4.0
	14.73	.660	.1706	-.014	-.112	.0063	-4.3		10.26	.440	.0906	-.055	-.139	.0045	-4.5		-.48	-.035	.0181	.010	.016	.0027	-4.0
	16.85	.753	.2239	-.016	-.134	.0068	-4.3		12.40	.520	.1228	-.067	-.178	.0048	-4.6		.51	0	.0178	.005	.000	.0028	-4.1
	17.90	.793	.2535	-.018	-.153	.0069	-4.4		14.48	.612	.1643	-.078	-.218	.0042	-4.7		1.03	.019	.0180	.003	-.006	.0028	-4.1
									16.54	.692	.2093	-.086	-.255	.0039	-4.8		2.02	.054	.0192	-.002	-.023	.0029	-4.1
0.90	-4.25	-.260	.0194	.034	.013	----	-4.0		17.58	.731	.2340	-.089	-.273	.0032	-4.9		4.07	.123	.0251	-.012	-.053	.0031	-4.2
	-2.14	-.150	.0164	.025	.003	----	-4.0										6.11	.192	.0352	-.021	-.081	.0033	-4.3
	-1.09	-.102	.0132	.022	.005	----	-4.0	1.50	-4.10	-.154	.0306	.036	.088	.0027	-3.8		8.16	.259	.0504	-.030	-.108	.0034	-4.4
	-.54	-.076	.0122	.020	.004	----	-4.0		-2.04	-.108	.0217	.023	.044	.0033	-3.9		10.20	.325	.0701	-.037	-.134	.0033	-4.5
	.43	-.025	.0112	.018	.006	----	-4.1		-1.01	-.068	.0192	.016	.026	.0035	-4.0		12.25	.389	.0940	-.043	-.155	.0036	-4.5
	.97	-.002	.0115	.016	.008	----	-4.1		-.49	-.042	.0183	.013	.016	.0036	-4.0		14.29	.448	.1217	-.050	-.174	.0038	-4.6
	2.10	.042	.0127	.013	.018	----	-4.1		.51	.001	.0175	.007	-.001	.0037	-4.1		16.34	.507	.1543	-.054	-.195	.0040	-4.7
	4.18	.150	.0190	.005	-.044	----	-4.2		1.03	.024	.0183	.004	-.012	.0037	-4.1		17.36	.538	.1732	-.055	-.206	.0042	-4.7
	6.30	.252	.0332	-.001	-.075	----	-4.2		2.04	.066	.0200	-.003	-.031	.0037	-4.2								

TABLE VII.- CONTINUED



(e) Nominal δ, -8°

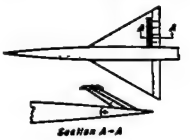
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.22	-0.260	0.0872	0.035	0.073	0.0126	-7.9	0.90	6.27	0.221	0.0330	0.014	0.046	0.0151	-7.9	1.50	2.04	0.055	0.0214	0.004	0.026	0.0069	-8.0
	-2.13	-.169	.0186	.031	.056	.0126	-8.0		8.39	.326	.0551	.011	.072	.0136	-7.9		4.09	.140	.0279	-.009	-.012	.0069	-8.1
	-1.09	-.125	.0152	.029	.047	.0128	-8.0		10.52	.433	.0876	.005	.097	.0131	-7.9		6.15	.226	.0402	-.021	-.046	.0071	-8.2
	-.56	-.108	.0141	.029	.044	.0129	-8.0										8.19	.310	.0585	-.032	-.077	.0067	-8.3
	.50	-.061	.0129	.028	.040	.0131	-8.0	1.20	-4.10	-.251	.0355	.054	.156	.0093	-7.6		10.24	.398	.0822	-.043	-.098	.0070	-8.4
	1.03	-.038	.0128	.027	.035	.0132	-8.0		-2.05	-.150	.0249	.039	.137	.0101	-7.7		12.30	.470	.1116	-.054	-.120	.0072	-8.4
	2.02	.007	.0129	.025	.025	.0126	-8.0		-1.01	-.101	.0215	.033	.140	.0101	-7.7		14.35	.545	.1461	-.064	-.145	.0078	-8.5
	4.05	.100	.0163	.021	.006	.0124	-8.0		-.50	-.076	.0203	.029	.119	.0104	-7.7		16.40	.618	.1899	-.072	-.188	.0070	-8.6
	6.21	.193	.0245	.017	-.009	.0124	-8.1		.47	-.026	.0194	.022	.106	.0105	-7.8		17.43	.644	.2078	-.076	-.203	.0063	-8.7
	8.30	.296	.0427	.012	-.015	.0127	-8.1		1.08	.001	.0196	.018	.101	.0106	-7.8								
	10.41	.400	.0711	.010	-.025	.0130	-8.1		2.09	.049	.0210	.012	.084	.0106	-7.8	1.70	-4.09	-.185	.0383	.036	.103	.0050	-7.7
	12.51	.500	.1064	.011	-.042	.0121	-8.1		4.10	.148	.0277	-.003	.054	.0103	-7.9		-2.04	-.106	.0234	.025	.073	.0056	-7.8
	14.62	.605	.1504	.011	-.054	.0116	-8.1		6.15	.247	.0413	-.029	.013	.0105	-8.0		-1.02	-.067	.0208	.020	.060	.0057	-7.9
	16.74	.722	.2063	.006	-.075	.0145	-8.2		8.21	.355	.0632	-.033	-.018	.0216	-8.1		-.48	-.047	.0200	.017	.051	.0057	-7.9
	17.79	.776	.2367	.006	-.085	.0143	-8.2		10.05	.457	.0897	-.047	-.058	.0118	-8.2		.56	-.007	.0193	.011	.033	.0058	-8.0
									12.14	.562	.1262	-.064	-.090	.0115	-8.3		1.03	.012	.0194	.008	.024	.0059	-8.0
0.80	-4.26	-.277	.0311	.043	.086	.0131	-7.9		14.17	.664	.1687	-.070	-.102	.0099	-8.3		2.03	.052	.0206	.003	.008	.0059	-8.0
	-2.14	-.173	.0202	.035	.066	.0128	-7.9										4.08	.129	.0366	-.009	-.022	.0061	-8.1
	-1.09	-.128	.0173	.034	.066	.0133	-7.9	1.30	-4.10	-.229	.0363	.048	.169	.0074	-7.6		6.13	.207	.0378	-.019	-.053	.0063	-8.2
	-.56	-.106	.0161	.033	.068	.0137	-7.9		-2.04	-.134	.0268	.034	.143	.0080	-7.6		8.18	.283	.0544	-.030	-.082	.0061	-8.3
	.43	-.064	.0145	.032	.066	.0140	-7.9		-1.01	-.088	.0231	.029	.130	.0084	-7.7		10.22	.358	.0769	-.039	-.108	.0061	-8.4
	1.02	-.039	.0143	.031	.062	.0140	-7.9		-.50	-.065	.0221	.024	.119	.0084	-7.7		12.27	.424	.1019	-.048	-.124	.0065	-8.4
	2.05	.010	.0145	.028	.044	.0136	-8.0		.49	-.018	.0214	.018	.104	.0085	-7.8		14.32	.492	.1329	-.056	-.145	.0067	-8.5
	4.19	.109	.0182	.022	.020	.0134	-8.0		1.03	.007	.0214	.015	.097	.0087	-7.8		16.37	.559	.1691	-.062	-.168	.0067	-8.6
	6.25	.209	.0290	.016	.007	.0140	-8.0		2.09	.054	.0230	.008	.080	.0086	-7.8		17.40	.590	.1887	-.064	-.180	.0065	-8.6
	8.36	.317	.0493	.011	-.008	.0150	-8.1		4.10	.146	.0296	-.006	.042	.0087	-7.9								
	10.48	.418	.0774	.011	-.018	.0126	-8.1		6.15	.240	.0426	-.019	.004	.0086	-8.0	1.90	-4.07	-.166	.0321	.030	.083	.0044	-7.8
	12.59	.519	.1160	.005	-.027	.0128	-8.1		8.20	.335	.0630	-.033	-.033	.0082	-8.2		-2.03	-.096	.0235	.021	.060	.0047	-7.9
	14.78	.630	.1698	.001	-.044	.0132	-8.2		10.26	.427	.0898	-.045	-.064	.0083	-8.2		-1.01	-.060	.0211	.016	.047	.0049	-7.9
	16.83	.740	.2236	-.010	-.070	.0211	-8.2		12.32	.515	.1224	-.057	-.098	.0084	-8.3		-.49	-.042	.0202	.014	.039	.0048	-7.9
	17.90	.795	.2570	-.012	-.076	.0216	-8.2		14.37	.601	.1618	-.069	-.142	.0076	-8.5		.46	-.007	.0196	.009	.025	.0049	-8.0
									16.42	.679	.2054	-.078	-.178	.0073	-8.6		1.02	.012	.0194	.007	.018	.0050	-8.0
0.90	-4.26	-.280	.0320	.045	.105	.0123	-7.8		17.45	.715	.2288	-.080	-.189	.0074	-8.6		2.03	.047	.0204	.002	.004	.0050	-8.0
	-2.15	-.175	.0809	.037	.084	.0119	-7.9										4.07	.116	.0257	-.008	-.021	.0052	-8.1
	-1.13	-.127	.0171	.034	.086	.0125	-7.9	1.50	-4.09	-.204	.0334	.041	.153	.0058	-7.6		6.11	.185	.0357	-.017	-.049	.0054	-8.2
	-.57	-.104	.0164	.034	.085	.0133	-7.9		-2.04	-.117	.0240	.029	.114	.0063	-7.7		8.16	.253	.0506	-.025	-.075	.0055	-8.3
	.40	-.058	.0160	.031	.084	.0135	-7.9		-1.01	-.073	.0213	.023	.092	.0066	-7.8		10.20	.318	.0697	-.033	-.098	.0053	-8.4
	.93	-.034	.0160	.030	.083	.0136	-7.9		-.49	-.052	.0202	.019	.079	.0066	-7.8		12.24	.380	.0927	-.040	-.116	.0055	-8.4
	2.04	.017	.0154	.027	.066	.0137	-7.9		.45	-.010	.0195	.013	.057	.0067	-7.9		14.28	.439	.1198	-.046	-.131	.0057	-8.4
	4.21	.120	.0204	.021	.041	.0141	-8.0		1.04	.013	.0198	.010	.046	.0069	-7.9		16.33	.501	.1526	-.050	-.151	.0060	-8.5
																	17.35	.530	.1707	-.051	-.162	.0062	-8.5

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.24	-.287	0.0326	0.046	0.140	0.0179	-11.8	0.90	6.31	0.210	0.0354	0.021	0.100	0.0181	-11.8	1.50	2.09	0.046	0.0240	0.010	0.110	0.0096	-11.7
	-2.14	-.192	.0229	.041	.116	.0172	-11.8		8.39	.312	.0555	.019	.126	.0162	-11.8		4.09	.130	.0899	-.003	.068	.0096	-11.8
	-1.10	-.149	.0195	.040	.112	.0177	-11.9		10.51	.420	.0872	.012	.137	.0159	-11.7		6.15	.215	.0414	-.015	.029	.0096	-12.0
	-.58	-.128	.0183	.040	.118	.0180	-11.9										8.20	.300	.0592	-.026	-.004	.0093	-12.1
	.37	-.090	.0167	.040	.109	.0187	-11.9	1.20	-4.10	-.267	.0418	.065	.209	.0134	-12.5		10.25	.380	.0823	-.037	-.026	.0096	-12.1
	.89	-.067	.0160	.039	.106	.0187	-11.9		-2.04	-.167	.0303	.050	.193	.0144	-11.5		12.31	.460	.1110	-.048	-.056	.0095	-12.2
	1.96	-.022	.0158	.037	.092	.0183	-11.9		-1.01	-.119	.0266	.043	.191	.0150	-11.5		14.35	.536	.1450	-.058	-.082	.0095	-12.3
	4.13	.068	.0175	.034	.071	.0178	-11.9		-.50	-.095	.0253	.040	.184	.0150	-11.5		16.41	.608	.1841	-.066	-.126	.0092	-12.4
	6.23	.162	.0245	.030	.058	.0182	-12.0		.44	-.047	.0241	.033	.173	.0153	-11.6		17.44	.644	.2057	-.070	-.140	.0084	-12.5
	8.29	.263	.0398	.024	.043	.0182	-12.0		.97	-.021	.0241	.030	.167	.0154	-11.6								
	10.39	.365	.0662	.022	.033	.0186	-12.0		2.08	.029	.0249	.023	.149	.0154	-11.6	1.70	-4.09	-.192	.0357	.041	.154	.0072	-11.6
	12.49	.467	.1003	.023	- -	.0177	- -		4.10	.126	.0307	.008	.107	.0152	-11.8		-2.04	-.114	.0265	.030	.108	.0077	-11.7
	14.60	.574	.1448	.023	.004	.0174	-12.0		6.15	.229	.0436	-.008	.075	.0148	-11.8		-1.01	-.075	.0237	.025	.114	.0079	-11.7
	16.72	.689	.1977	.018	-.015	.0197	-12.1		8.21	.336	.0640	-.024	.039	.0152	-12.9		-.49	-.055	.0227	.022	.105	.0079	-11.7
	17.79	.744	.2260	.017	-.024	.0195	-12.1		10.27	.441	.0917	-.038	.011	.0149	-12.0		.46	-.015	.0221	.016	.089	.0080	-11.8
									12.34	.548	.1279	-.052	-.011	.0146	-12.1		1.03	.005	.0219	.013	.080	.0082	-11.8
0.80	-4.27	-.287	.0356	.049	.139	.0151	-11.7		14.40	.645	.1694	-.061	-.026	.0130	-12.1		2.09	.046	.0229	.007	.052	.0082	-11.9
	-2.15	-.190	.0250	.043	.137	.0160	-11.8										4.08	.121	.0284	-.004	.030	.0082	-12.0
	-1.10	-.144	.0216	.041	.136	.0163	-11.8	1.30	-4.09	-.241	.0419	.057	.212	.0112	-11.4		6.13	.198	.0390	-.015	-.001	.0083	-12.1
	-.59	-.123	.0203	.041	.144	.0168	-11.7		-2.04	-.147	.0312	.043	.191	.0120	-11.5		8.18	.275	.0549	-.025	-.031	.0080	-12.2
	.38	-.080	.0188	.039	.145	.0172	-11.7		-1.01	-.102	.0278	.037	.184	.0124	-11.5		10.23	.349	.0769	-.034	-.056	.0081	-12.2
	.91	-.056	.0182	.038	.142	.0172	-11.7		-.50	-.080	.0266	.033	.176	.0124	-11.5		12.27	.418	.1018	-.043	-.071	.0085	-12.3
	2.00	-.008	.0183	.037	.121	.0173	-11.8		.45	-.033	.0253	.027	.165	.0126	-11.6		14.33	.485	.1321	-.051	-.093	.0086	-12.3
	4.18	.084	.0209	.032	.091	.0176	-11.9		.98	-.008	.0254	.024	.161	.0127	-11.6		16.38	.551	.1678	-.057	-.113	.0086	-12.4
	6.28	.186	.0308	.026	.072	.0182	-11.9		2.08	.039	.0264	.017	.145	.0126	-11.6		17.41	.585	.1878	-.059	-.127	.0084	-12.5
	8.35	.292	.0493	.021	.064	.0190	-11.9		4.10	.131	.0324	.003	.107	.0125	-11.7								
	10.47	.394	.0776	.021	.071	.0192	-11.9		6.16	.225	.0418	-.011	.069	.0123	-11.9	1.90	-4.07	-.171	.0341	.035	.121	.0063	-11.7
	12.58	.494	.1148	.018	.071	.0183	-11.9		8.21	.319	.0641	-.024	.038	.0119	-11.9		-2.03	-.101	.0258	.025	.098	.0067	-11.8
	14.71	.596	.1587	.016	.088	.0197	-11.9		10.26	.412	.0897	-.037	.000	.0118	-12.1		-1.01	-.066	.0232	.020	.069	.0068	-11.8
	16.83	.716	.2176	.006	.104	.0274	-11.8		12.32	.501	.1223	-.049	-.030	.0113	-12.1		-.49	-.048	.0224	.018	.079	.0068	-11.8
	17.89	.762	.2461	.003	.111	.0280	-11.8		14.37	- - -	- - -	-.061	-.064	.0105	-12.2		.47	-.012	.0217	.013	.065	.0068	-11.9
									16.43	- - -	- - -	-.069	-.100	.0106	-12.3		1.03	.006	.0216	.011	.057	.0069	-11.9
0.90	-4.27	-.296	.0373	.052	.154	.0141	-11.7		17.46	.703	.2261	-.073	-.124	.0098	-12.4		2.06	.042	.0225	.006	.043	.0069	-11.9
	-2.16	-.190	.0253	.044	.152	.0148	-11.7										4.08	.109	.0273	-.004	.015	.0069	-12.0
	-1.11	-.142	.0217	.042	.156	.0153	-11.7	1.50	-4.08	-.212	.0379	.048	.211	.0087	-12.4		6.12	.178	.0367	-.013	-.012	.0071	-12.1
	-.47	-.118	.0201	.041	.162	.0157	-11.7		-2.04	-.126	.0280	.035	.184	.0091	-11.5		8.16	.245	.0508	-.021	-.036	.0071	-12.2
	.38	-.071	.0185	.038	.156	.0158	-11.7		-1.01	-.083	.0248	.029	.169	.0093	-11.5		- - -	- - -	- - -	- - -	- - -	- - -	- - -
	.91	-.047	.0180	.036	.149	.0158	-11.7		-.50	-.062	.0237	.026	.157	.0093	-11.6		12.25	.374	.0924	-.036	-.074	.0071	-12.3
	2.05	.002	.0182	.034	.128	.0162	-11.7		.46	-.020	.0225	.020	.139	.0095	-11.6		14.30	.435	.1195	-.041	-.087	.0072	-12.3
	4.20	.105	.0225	.027	.106	.0168	-11.8		1.03	.002	.0227	.017	.128	.0096	-11.7		16.35	.495	.1519	-.045	-.103	.0077	-12.4
																	17.37	.524	.1698	-.046	-.114	.0079	-12.4

NACA

TABLE VII.- CONTINUED



(g) Nominal δ, -16°

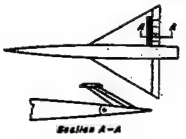
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	-0.302	0.0380	0.054	0.203	0.0187	-15.6	0.90	6.32	0.204	0.0371	0.024	0.095	0.0170	-15.7	1.50	2.08	0.034	0.0277	0.018	0.171	0.0118	-15.4
	-2.15	-.207	.0279	.049	.197	.0183	-15.6		8.39	.304	.0579	.022	.128	.0159	-15.7		4.10	.120	.0330	.004	.131	.0115	-15.6
	-1.11	-.165	.0244	.048	.197	.0189	-15.6		10.30	.404	.0887	.019	.169	.0166	-15.6		6.15	.205	.0441	-.008	.095	.0115	-15.7
	-.59	-.146	.0230	.048	.199	.0193	-15.6		12.63	.516	.1296	.010	.189	.0165	-15.5		8.20	.289	.0610	-.020	.065	.0111	-15.8
	.35	-.107	.0214	.048	.205	.0202	-15.6										10.25	.372	.0836	-.032	.033	.0108	-15.9
	.87	-.086	.0208	.048	.200	.0202	-15.6	1.20	-4.09	-.283	.0473	.075	.306	.0156	-15.1		12.30	.453	.1118	-.043	.000	.0108	-16.0
	1.93	-.043	.0199	.047	.182	.0203	-15.6		-2.04	-.184	.0359	.060	.279	.0172	-15.2		14.35	.528	.1454	-.053	-.029	.0107	-16.0
	4.12	.050	.0211	.043	.154	.0199	-15.7		-1.01	-.137	.0317	.053	.263	.0178	-15.2		16.40	.602	.1841	-.062	-.070	.0108	-16.2
	6.21	.141	.0273	.039	.133	.0202	-15.7		-.49	-.113	.0302	.050	.256	.0180	-15.2		17.43	.637	.2048	-.065	-.080	.0101	-16.2
	8.32	.246	.0417	.034	.113	.0205	-15.8		.43	-.084	.0287	.043	.245	.0184	-15.3								
	10.38	.343	.0648	.032	.098	.0213	-15.9		.96	-.039	.0285	.040	.242	.0184	-15.3	1.70	-4.07	-.202	.0404	.048	.217	.0087	-15.3
	12.48	.446	.0976	.033	.080	.0206	-15.8		2.07	.011	.0291	.033	.221	.0184	-15.3		-2.03	-.123	.0304	.036	.187	.0092	-15.4
	14.59	.546	.1404	.033	.068	.0204	-15.9		4.16	.114	.0343	.018	.198	.0182	-15.4		-1.00	-.084	.0274	.030	.172	.0092	-15.4
	16.70	.647	.1973	.028	.045	.0232	-15.9		6.16	.217	.0463	.001	.142	.0176	-15.6		-.49	-.063	.0263	.027	.163	.0093	-15.5
	17.76	.719	.2257	.028	.038	.0228	-15.9		8.21	.324	.0661	-.016	.111	.0174	-15.6		.46	-.024	.0252	.022	.148	.0093	-15.5
									10.28	.489	.0935	-.031	.091	.0171	-15.7		.98	-.002	.0250	.019	.139	.0094	-15.5
0.80	-4.26	-.298	.0408	.054	.202	.0153	-15.5		12.34	.540	.1294	-.049	.058	.0165	-15.8		2.08	.037	.0258	.013	.118	.0094	-15.6
	-2.16	-.203	.0296	.050	.199	.0166	-15.5		14.42	.636	.1706	-.054	.035	.0145	-15.9		4.09	.114	.0308	.001	.086	.0094	-15.7
	-1.11	-.156	.0254	.047	.201	.0170	-15.5										6.13	.191	.0410	-.010	.053	.0093	-15.8
	-.59	-.135	.0243	.046	.202	.0171	-15.5	1.30	-4.08	-.255	.0481	.066	.247	.0139	-15.2		8.18	.269	.0565	-.021	.021	.0090	-15.9
	.37	-.093	.0229	.044	.197	.0173	-15.5		-2.03	-.162	.0369	.052	.236	.0150	-15.3		10.23	.341	.0775	-.030	-.003	.0091	-16.0
	.89	-.068	.0220	.044	.194	.0174	-15.5		-1.01	-.119	.0333	.047	.234	.0156	-15.3		12.28	.418	.1027	-.039	-.023	.0093	-16.0
	1.96	-.023	.0218	.042	.185	.0177	-15.5		-.49	-.096	.0319	.043	.228	.0156	-15.3		14.33	.481	.1328	-.047	-.046	.0093	-16.1
	4.16	.072	.0241	.038	.158	.0183	-15.6		.44	-.050	.0303	.037	.217	.0156	-15.3		16.37	.546	.1677	-.054	-.067	.0091	-16.2
	6.29	.175	.0334	.032	.126	.0186	-15.7		1.08	-.024	.0301	.034	.215	.0159	-15.3		17.40	.579	.1874	-.056	-.080	.0089	-16.2
	8.34	.278	.0503	.027	.121	.0190	-15.7		2.07	.024	.0308	.027	.193	.0157	-15.4								
	10.46	.387	.0781	.022	.115	.0193	-15.7		4.15	.118	.0361	.012	.149	.0153	-15.5	1.90	-4.07	-.179	.0383	.039	.161	.0072	-15.5
	12.57	.480	.1130	.021	.103	.0173	-15.7		6.15	.212	.0476	-.003	.115	.0149	-15.6		-2.08	-.109	.0292	.030	.137	.0075	-15.6
	14.69	.590	.1601	.018	.111	.0191	-15.7		8.22	.306	.0659	-.016	.084	.0144	-15.7		-1.01	-.074	.0264	.025	.125	.0076	-15.6
	16.82	.701	.2166	.012	.125	.0266	-15.7		10.27	.402	.0910	-.030	.055	.0137	-15.8		-.48	-.057	.0254	.022	.118	.0076	-15.6
	17.88	.745	.2460	.010	.150	.0282	-15.6		12.32	.493	.1228	-.043	.031	.0131	-15.9		.45	-.020	.0243	.018	.106	.0077	-15.6
									14.38	—	—	-.055	.001	.0122	-15.9		1.03	-.001	.0242	.015	.099	.0077	-15.7
0.90	-4.28	-.310	.0426	.060	.208	.0150	-15.5		16.43	—	—	-.064	-.036	.0121	-16.1		2.06	.034	.0247	.010	.084	.0077	-15.7
	-2.17	-.204	.0300	.051	.203	.0157	-15.5		17.46	.698	.2267	-.068	-.051	.0112	-16.1		4.07	.104	.0293	0	.058	.0077	-15.8
	-1.11	-.154	.0257	.048	.202	.0160	-15.5										6.12	.173	.0303	-.009	.032	.0078	-15.9
	-.58	-.132	.0246	.047	.208	.0165	-15.5	1.50	-4.08	-.224	.0435	.056	.243	.0111	-15.2		8.16	.240	.0320	-.018	.005	.0077	-15.9
	.36	-.084	.0227	.044	.202	.0166	-15.5		-2.03	-.140	.0331	.044	.230	.0116	-15.3		10.21	.306	.0706	-.025	-.019	.0074	-16.0
	.91	-.061	.0221	.043	.200	.0167	-15.5		-1.01	-.098	.0296	.037	.220	.0119	-15.3		12.25	.371	.0934	-.033	-.035	.0077	-16.1
	1.98	-.013	.0220	.040	.182	.0168	-15.5		-.50	-.076	.0282	.034	.210	.0119	-15.3		14.29	.432	.1200	-.038	-.050	.0078	-16.1
	4.19	.093	.0251	.034	.148	.0174	-15.6		.45	-.033	.0268	.028	.193	.0118	-15.4		16.35	—	—	-.042	-.065	.0080	-16.2
									.97	-.010	.0268	.024	.188	.0119	-15.4		17.37	.584	.1696	-.043	-.075	.0082	-16.2

(h) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.305	0.0422	0.054	0.235	0.0135	-19.6	0.90	8.39	0.304	0.0601	0.022	0.124	0.0169	-19.8	1.50	4.15	0.108	0.0369	0.011	0.176	0.0134	-19.5
	-2.16	-.213	.0318	.050	.225	.0202	-19.7		10.30	.408	.0913	.018	.131	.0170	-19.7		6.15	.193	.0473	-.002	.124	.0131	-19.7
	-1.12	-.171	.0286	.049	.226	.0209	-19.7		12.63	.509	.1317	.013	.170	.0184	-19.6		8.20	.277	.0636	-.014	.101	.0146	-19.7
	-.60	-.150	.0270	.049	.229	.0210	-19.6										10.25	.362	.0854	-.027	.074	.0140	-19.8
	.35	-.112	.0254	.049	.235	.0218	-19.6	1.20	-4.09	-.298	.0526	.082	.388	.0190	-19.0		12.30	.444	.1134	-.038	.046	.0137	-19.9
	.88	-.091	.0248	.049	.233	.0222	-19.6		-2.03	-.199	.0405	.057	.376	.0209	-19.0		14.36	.519	.1467	-.048	.018	.0136	-20.0
	1.98	-.049	.0242	.048	.226	.0226	-19.7		-1.01	-.158	.0365	.051	.371	.0217	-19.0		16.40	.591	.1837	-.056	-.011	.0135	-20.1
	4.11	.044	.0252	.044	.198	.0224	-19.7		-.50	-.128	.0352	.057	.366	.0220	-19.0		17.43	.627	.2047	-.060	-.024	.0126	-20.1
	6.23	.140	.0310	.040	.178	.0224	-19.7		.43	-.081	.0336	.051	.358	.0226	-19.0								
	8.32	.242	.0454	.034	.156	.0227	-19.8		.95	-.056	.0333	.047	.353	.0227	-19.0	1.70	-4.08	-.210	.0456	.053	.239	.0124	-19.3
	10.43	.341	.0689	.033	.148	.0233	-19.8		2.02	-.006	.0335	.041	.337	.0228	-19.1		-2.03	-.133	.0356	.042	.228	.0130	-19.3
	12.48	.439	.1001	.035	.145	.0234	-19.8		4.16	.096	.0379	.025	.285	.0225	-19.2		-1.01	-.094	.0323	.036	.218	.0131	-19.4
	14.59	.541	.1413	.037	.138	.0236	-19.8		6.16	.201	.0484	.007	.216	.0212	-19.4		-.50	-.075	.0313	.033	.213	.0131	-19.4
	16.71	.631	.1929	.034	.129	.0266	-19.8		8.22	.309	.0682	-.009	.190	.0212	-19.5		.44	-.036	.0303	.028	.202	.0131	-19.4
	17.77	.707	.2237	.035	.123	.0269	-19.8		10.28	.414	.0948	-.024	.174	.0210	-19.6		.98	-.015	.0297	.025	.195	.0131	-19.4
									12.34	.522	.1295	-.040	.138	.0208	-19.7		2.08	.027	.0301	.019	.180	.0127	-19.5
0.80	-4.27	-.308	.0443	.057	.228	.0177	-19.6		14.42	.623	.1709	-.048	.098	.0174	-19.8		4.10	.104	.0345	.007	.148	.0127	-19.6
	-2.17	-.212	.0329	.052	.221	.0188	-19.6										6.14	.182	.0441	-.004	.111	.0125	-19.7
	-1.12	-.167	.0291	.049	.220	.0192	-19.6	1.30	-4.09	-.266	.0533	.072	.357	.0175	-19.0		8.19	.257	.0589	-.015	.081	.0121	-19.8
	-.59	-.142	.0274	.048	.220	.0194	-19.6		-2.04	-.176	.0422	.059	.340	.0188	-19.1		10.24	.333	.0791	-.024	.048	.0122	-19.9
	.35	-.101	.0256	.047	.218	.0199	-19.6		-1.01	-.131	.0384	.053	.335	.0194	-19.1		12.27	.404	.1034	-.035	.024	.0120	-20.0
	.89	-.078	.0252	.046	.215	.0201	-19.6		-.49	-.109	.0369	.050	.327	.0195	-19.1		14.32	.472	.1359	-.043	.000	.0119	-20.1
	2.00	-.030	.0248	.044	.201	.0201	-19.6		.43	-.069	.0353	.043	.314	.0199	-19.1		16.37	.539	.1680	-.050	-.024	.0117	-20.1
	4.16	.065	.0265	.040	.178	.0207	-19.7		.96	-.040	.0351	.040	.307	.0200	-19.2		17.40	.572	.1876	-.052	-.035	.0114	-20.2
	6.27	.172	.0356	.032	.127	.0203	-19.8		2.07	.006	.0355	.033	.288	.0201	-19.2								
	8.33	.280	.0733	.026	.133	.0208	-19.8		4.16	.103	.0402	.019	.239	.0198	-19.4	1.90	-4.06	-.186	.0433	.044	.224	.0106	-19.4
	10.46	.384	.0809	.023	.127	.0206	-19.8		6.16	.198	.0508	.004	.173	.0189	-19.5		-2.02	-.116	.0337	.034	.195	.0108	-19.5
	12.59	.490	.1175	.021	.116	.0181	-19.8		8.22	.294	.0681	-.011	.136	.0178	-19.6		-1.01	-.082	.0307	.029	.180	.0108	-19.5
	14.70	.591	.1613	.018	.116	.0194	-19.8		10.27	.389	.0925	-.024	.112	.0171	-19.7		-.49	-.063	.0295	.027	.173	.0108	-19.5
	16.84	.709	.2197	.010	.110	.0262	-19.8		12.32	.480	.1237	-.037	.079	.0163	-19.8		.44	-.048	.0281	.022	.160	.0106	-19.6
	17.89	.752	.2479	.008	.117	.0276	-19.8		14.38	.568	.1616	-.050	.044	.0152	-19.9		.96	-.009	.0279	.019	.153	.0107	-19.6
									16.43	.646	.2034	-.059	.012	.0150	-20.0		2.07	.027	.0281	.014	.139	.0107	-19.6
0.90	-4.30	-.326	.0480	.065	.253	.0182	-19.4		17.45	.684	.2260	-.064	.003	.0139	-20.0		4.08	.097	.0320	.005	.111	.0105	-19.7
	-2.18	-.219	.0346	.056	.242	.0187	-19.5										6.12	.166	.0407	-.005	.081	.0104	-19.8
	-1.12	-.167	.0300	.052	.240	.0188	-19.5	1.50	-4.09	-.234	.0489	.062	.261	.0146	-19.3		8.17	.233	.0542	-.014	.053	.0102	-19.9
	-.59	-.144	.0287	.051	.243	.0195	-19.5		-2.03	-.151	.0384	.049	.248	.0156	-19.3		10.21	.300	.0722	-.022	.026	.0099	-20.0
	.44	-.096	.0266	.049	.238	.0198	-19.5		-1.01	-.110	.0350	.044	.245	.0159	-19.3		12.26	.365	.0941	-.029	.001	.0101	-20.0
	.89	-.073	.0262	.047	.236	.0200	-19.5		-.50	-.089	.0337	.040	.239	.0160	-19.3		14.30	.426	.1202	-.035	-.011	.0102	-20.1
	1.97	-.023	.0255	.044	.213	.0202	-19.5		.44	-.047	.0320	.034	.227	.0161	-19.4		16.35	.486	.1519	-.039	-.028	.0103	-20.1
	4.20	.083	.0285	.037	.173	.0203	-19.6		.99	-.024	.0318	.031	.222	.0160	-19.4		17.38	.516	.1699	-.041	-.038	.0105	-20.2
	6.32	.206	.0392	.024	.102	.0198	-19.8		2.07	.021	.0321	.024	.201	.0160	-19.4								

NACA

TABLE VII.- CONCLUDED



(i) Nominal δ, -24°

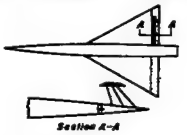
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	-0.310	0.0456	0.057	0.268	0.0998	-23.6	0.90	8.38	0.298	0.0601	0.021	0.120	0.0175	-23.8	1.50	6.15	0.183	0.0503	0.003	0.184	0.0176	-23.5
	-2.17	-.217	.0350	.053	.263	.1042	-23.6		10.50	.406	.0907	.018	.125	.0166	-23.8		8.20	.270	.0547	-.011	.149	.0162	-23.6
	-1.12	-.178	.0318	.052	.262	.1077	-23.6										10.24	.355	.0866	-.023	.117	.0158	-23.7
	-.60	-.157	.0303	.052	.259	.1091	-23.6	1.20	-4.09	-.309	.0578	.087	.433	.0211	-22.8		12.30	.434	.1136	-.034	.086	.0155	-23.8
	.34	-.117	.0281	.051	.254	.1112	-23.6		-2.04	-.210	.0456	.072	.419	.0230	-22.9		14.35	.512	.1471	-.045	.053	.0152	-23.9
	.88	-.096	.0271	.051	.251	.1115	-23.6		-1.01	-.164	.0416	.066	.421	.0240	-22.9		16.39	.584	.1837	-.053	.025	.0152	-24.0
	1.92	-.050	.0265	.049	.237	.1098	-23.6		-.50	-.141	.0401	.063	.418	.0244	-22.9		17.42	.618	.2044	-.056	.014	.0147	-24.0
	4.19	.035	.0277	.047	.235	.1164	-23.6		.42	-.094	.0385	.056	.404	.0249	-22.9								
	6.21	.127	.0330	.044	.218	.1195	-23.7		.94	-.070	.0381	.053	.402	.0252	-22.9	1.70	-4.07	-.217	.0508	.038	.277	.0144	-23.2
	8.33	.232	.0469	.038	.194	.1171	-23.7		2.04	-.020	.0361	.047	.389	.0255	-22.9		-2.03	-.139	.0401	.046	.255	.0150	-23.3
	10.42	.333	.0698	.036	.185	.1209	-23.7		4.15	.085	.0417	.030	.313	.0249	-23.2		-1.00	-.102	.0367	.041	.248	.0152	-23.3
	12.48	.438	.1015	.037	.178	.1177	-23.7		6.16	.192	.0510	.011	.252	.0232	-23.3		-.51	-.082	.0355	.039	.242	.0153	-23.3
	14.59	.536	.1421	.038	.170	.1171	-23.8		8.22	.300	.0704	-.005	.242	.0235	-23.4		.44	-.044	.0341	.032	.230	.0156	-23.4
	16.61	.648	.1924	.035	.157	.1299	-23.8		10.28	.403	.0965	-.019	.223	.0232	-23.4		.98	-.023	.0337	.030	.225	.0154	-23.4
	17.67	.703	.2213	.035	.151	.1292	-23.8		12.34	.512	.1307	-.036	.192	.0227	-23.5		2.07	.018	.0336	.023	.208	.0153	-23.4
									14.42	.612	.1720	-.043	.160	.0191	-23.6		4.14	.097	.0375	-.010	.167	.0149	-23.5
0.80	-4.28	-.314	.0492	.061	.258	.0190	-23.5										6.14	.174	.0469	0	.135	.0146	-23.6
	-2.17	-.220	.0377	.056	.252	.0204	-23.5	1.30	-4.09	-.277	.0579	.077	.384	.0193	-22.9		8.19	.250	.0608	-.011	.103	.0142	-23.7
	-1.12	-.177	.0338	.054	.251	.0210	-23.5		-2.04	-.185	.0466	.063	.377	.0210	-23.0		10.24	.326	.0799	-.021	.081	.0137	-23.8
	-.60	-.153	.0320	.053	.249	.0212	-23.5		-1.02	-.143	.0429	.058	.374	.0219	-23.0		12.29	.398	.1043	-.031	.067	.0137	-23.8
	.35	-.111	.0300	.051	.245	.0215	-23.5		-.49	-.119	.0414	.054	.366	.0219	-23.0		14.33	.467	.1334	-.040	.034	.0136	-23.9
	.87	-.089	.0293	.051	.239	.0216	-23.5		.51	-.074	.0395	.048	.355	.0224	-23.0		16.39	.533	.1695	-.046	.014	.0135	-24.0
	1.95	-.042	.0287	.049	.229	.0218	-23.5		1.00	-.051	.0392	.045	.349	.0226	-23.0		17.41	.566	.1875	-.048	.002	.0131	-24.0
	4.14	.050	.0301	.045	.215	.0229	-23.6		2.01	-.003	.0398	.039	.340	.0228	-23.1								
	6.27	.160	.0370	.035	.195	.0218	-23.7		4.16	.091	.0438	.024	.882	.0224	-23.2	1.90	-4.07	-.193	.0499	.049	.239	.0128	-23.3
	8.39	.271	.0544	.026	.142	.0214	-23.7		6.19	.189	.0529	.007	.216	.0208	-23.4		-2.02	-.123	.0397	.039	.236	.0130	-23.4
	10.46	.378	.0806	.022	.134	.0214	-23.8		8.31	.284	.0703	-.007	.190	.0200	-23.5		-.97	-.089	.0362	.034	.219	.0130	-23.4
	12.67	.483	.1163	.021	.120	.0178	-23.8		10.27	.377	.0937	-.019	.182	.0195	-23.5		-.50	-.071	.0349	.031	.213	.0130	-23.4
	14.51	.585	.1577	.018	.120	.0190	-23.8		12.32	.466	.1243	-.031	.155	.0184	-23.6		.44	-.036	.0330	.027	.206	.0129	-23.4
	16.60	.707	.2144	.008	.106	.0188	-23.8		14.38	.554	.1608	-.044	.125	.0195	-23.7		.96	-.017	.0325	.024	.202	.0129	-23.4
	17.64	.762	.2449	.005	.099	.0232	-23.8		16.43	.637	.2037	-.055	.095	.0170	-23.9		2.05	.020	.0325	.019	.198	.0128	-23.5
									17.46	.677	.2271	-.059	.092	.0159	-23.9		4.11	.090	.0336	.009	.163	.0126	-23.6
0.90	-3.94	-.331	.0520	.068	.277	.0191	-23.4										6.12	.158	.0433	0	.128	.0123	-23.7
	-1.94	-.225	.0377	.059	.265	.0198	-23.4	1.50	-4.08	-.247	.0548	.067	.348	.0170	-23.0		8.17	.227	.0551	-.010	.094	.0119	-23.8
	-1.13	-.176	.0336	.056	.265	.0204	-23.4		-2.03	-.180	.0439	.055	.335	.0180	-23.1		10.20	.292	.0731	-.018	.065	.0118	-23.9
	-.60	-.151	.0317	.054	.265	.0207	-23.4		-1.01	-.120	.0402	.049	.326	.0184	-23.1		12.25	.359	.0947	-.026	.043	.0116	-23.9
	.35	-.108	.0297	.052	.265	.0212	-23.4		-.46	-.098	.0385	.046	.316	.0189	-23.1		14.30	.420	.1207	-.032	.021	.0115	-24.0
	.88	-.084	.0291	.051	.253	.0215	-23.4		.45	-.071	.0376	.040	.305	.0186	-23.1		16.34	.481	.1521	-.036	.002	.0113	-24.0
	1.96	-.033	.0285	.059	.237	.0216	-23.5		.97	-.034	.0374	.036	.302	.0186	-23.1		17.36	.510	.1697	-.038	-.005	.0119	-24.1
	4.17	.072	.0306	.041	.198	.0220	-23.6		2.02	.009	.0387	.030	.286	.0185	-23.2								
	6.31	.193	.0403	.028	.125	.0204	-23.8		4.10	.100	.0403	.016	.234	.0180	-23.4								

(j) Nominal δ, -28°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	-0.318	0.0497	0.059	0.295	0.0215	-27.5	0.90	6.30	0.178	0.0427	0.032	0.159	0.0223	-27.7	1.50	2.06	0.005	0.0389	0.031	0.240	0.0158	-27.3
	-2.17	-.230	.0392	.056	.290	.0226	-27.6		8.37	.294	.0606	.023	.131	.0192	-27.7		4.13	.096	.0406	.015	.166	.0159	-27.5
	-1.13	-.187	.0351	.055	.291	.0231	-27.5		10.50	.404	.0916	.018	.130	.0210	-27.7		6.14	.188	.0493	.001	.146	.0178	-27.6
	-.60	-.167	.0336	.054	.290	.0234	-27.6										8.20	.265	.0634	-.009	.134	.0174	-27.6
	.33	-.125	.0310	.053	.284	.0235	-27.6	1.20	-4.09	-.316	.0630	.090	.427	.0218	-26.8		10.25	.348	.0876	-.020	.134	.0173	-27.6
	.86	-.103	.0301	.053	.281	.0235	-27.6		-2.04	-.218	.0506	.076	.424	.0241	-26.9		12.31	.427	.1145	-.031	.136	.0170	-27.6
	1.98	-.056	.0286	.050	.265	.0230	-27.6		-1.01	-.172	.0465	.070	.440	.0253	-26.8		14.35	.505	.1475	-.042	.098	.0167	-27.8
	4.09	.031	.0293	.047	.237	.0238	-27.6		-.50	-.148	.0449	.067	.436	.0257	-26.8		16.41	.576	.1840	-.052	.058	.0166	-27.9
	6.21	.124	.0346	.044	.214	.0244	-27.7		.43	-.100	.0427	.059	.421	.0263	-26.9		17.43	.612	.2047	-.054	.046	.0159	-27.9
	8.32	.230	.0482	.038	.195	.0241	-27.7		.94	-.076	.0422	.056	.415	.0265	-26.9								
	10.41	.332	.0711	.035	.187	.0243	-27.7		1.98	-.029	.0424	.050	.401	.0269	-26.9	1.70	-4.07	-.222	.0538	.059	.254	.0155	-27.3
	12.48	.433	.1030	.037	.186	.0239	-27.7		4.16	.081	.0438	.030	.396	.0251	-27.2		-2.03	-.147	.0443	.049	.264	.0166	-27.5
	14.58	.533	.1423	.038	.183	.0238	-27.7		6.16	.186	.0526	.013	.245	.0242	-27.4		-1.01	-.112	.0414	.045	.271	.0171	-27.8
	16.70	.654	.1964	.034	.178	.0262	-27.8		8.22	.292	.0717	-.003	.245	.0243	-27.4		-.49	-.092	.0400	.042	.266	.0173	-27.8
	17.75	.703	.2240	.035	.169	.0258	-27.8		10.27	.396	.0982	-.017	.234	.0240	-27.4		.44	-.052	.0360	.035	.237	.0171	-27.3
									12.34	.502	.1324	-.032	.221	.0238	-27.4		.96	-.031	.0373	.032	.234	.0171	-27.3
0.80	-4.28	-.328	.0544	.064	.278	.0202	-27.4		14.41	.600	.1721	-.038	.190	.0200	-27.5		2.07	.006	.0373	.027	- -	.0170	-27.3
	-2.19	-.231	.0416	.059	.272	.0213	-27.5										4.14	.089	.0398	.014	.163	.0164	-27.6
	-1.13	-.187	.0375	.057	.275	.0221	-27.5	1.30	-4.09	-.278	.0616	.077	.355	.0199	-27.0		6.13	.168	.0474	.001	.127	.0151	-27.7
	-.61	-.163	.0358	.056	.278	.0222	-27.5		-2.04	-.188	.0503	.064	.352	.0218	-27.0		8.18	.244	.0610	-.010	.114	.0146	-27.7
	.33	-.120	.0389	.054	.262	.0224	-27.5		-1.01	-.146	.0469	.059	.363	.0228	-27.0		10.23	.320	.0800	-.020	.109	.0145	-27.7
	.87	-.097	.0321	.053	.257	.0225	-27.5		-.50	-.123	.0451	.056	.354	.0230	-27.0		12.27	.391	.1041	-.029	.098	.0147	-27.8
	1.93	-.051	.0310	.050	.242	.0225	-27.5		.43	-.079	.0433	.050	.344	.0235	-27.1		14.33	.459	.1334	-.037	.061	.0146	-27.9
	4.12	.043	.0321	.047	.219	.0236	-27.6		.96	-.056	.0430	.047	.342	.0239	-27.1		16.37	.526	.1678	-.044	.035	.0145	-27.9
	6.26	.153	.0388	.037	.198	.0225	-27.7		2.01	-.008	.0439	.040	.316	.0239	-27.1		17.40	.558	.1867	-.046	.027	.0143	-28.0
	8.34	.267	.0559	.029	.141	.0222	-27.7		4.15	.092	.0488	.029	.283	.0222	-27.4								
	10.46	.380	.0826	.023	.134	.0220	-27.8		6.15	.186	.0533	.008	.192	.0216	-27.5	1.90	-4.07	-.202	.0535	.053	.282	.0146	-27.2
	12.57	.482	.1174	.021	.135	.0181	-27.8		8.21	.281	.0709	-.006	.186	.0209	-27.5		-2.03	-.133	.0433	.044	.267	.0149	-27.3
	14.69	.586	.1618	.019	.127	.0191	-27.8		10.26	.375	.0933	-.017	.186	.0208	-27.5		-1.00	-.098	.0396	.038	.261	.0148	-27.3
	16.83	.711	.2204	.008	.114	.0245	-27.8		12.32	.468	.1251	-.030	.169	.0205	-27.6		-.50	-.080	.0383	.036	.257	.0148	-27.3
	17.89	.762	.2497	.005	.102	.0245	-27.8		14.48	.546	.1611	-.041	.143	.0201	-27.6		.44	-.043	.0364	.031	.247	.0148	-27.3
									16.49	.629	.2041	-.052	.098	.0185	-27.8		.97	-.026	.0357	.028	.238	.0147	-27.3
0.90	-4.31	-.343	.0779	.073	.305	.0202	-27.3		17.46	.669	.2274	-.057	.090	.0173	-27.8		2.06	.011	.0351	.042	.224	.0145	-27.4
	-2.19	-.237	.0432	.064	.296	.0211	-27.4										4.13	.083	.0383	.013	.195	.0141	-27.5
	-1.14	-.188	.0383	.060	.287	.0217	-27.4	1.50	-4.09	-.245	.0559	.065	.277	.0169	-27.2		6.14	.153	.0457	.013	.137	.0136	-27.6
	-.61	-.164	.0368	.059	.300	.0220	-27.3		-2.03	-.162	.0454	.054	.272	.0184	-27.2		8.16	.221	.0577	-.008	.099	.0132	-27.8
	.35	-.119	.0344	.057	.290	.0225	-27.4		-1.01	-.123	.0421	.049	.269	.0189	-27.2		10.20	.290	.0731	-.017	.080	.0124	-27.8
	.88	-.095	.0335	.055	.286	.0227	-27.4		-.50	-.101	.0406	.045	.265	.0190	-27.2		12.25	.356	.0952	-.025	.063	.0123	-27.9
	1.94	-.046	.0325	.052	.268	.0228	-27.4		.43	-.060	.0386	.039	.248	.0193	-27.3		14.29	.416	.1210	-.031	.044	.0124	-27.9
	4.16	.057	.0345	.045	.232	.0239	-27.5		.96	-.039	.0386	.037	.255	.0197	-27.3		16.34	.477	.1523	-.035	.020	.0127	-28.0
																	17.36	.506	.1698	-.036	.013	.0128	-28.0

NACA

TABLE VIII.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 67-PERCENT-SPAN PADDLE BALANCE MOUNTED ON THE UPPER SURFACE OF THE FLAP AFT OF THE HINGE LINE. DATA FOR ONE FLAP. $R=4.4\times10^6$.



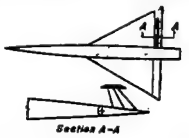
(a) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.16	-0.170	0.0163	-0.001	-0.019	-0.0037	1.8
	-2.06	-.078	.0111	-.005	-.033	-.0040	1.8
	-1.05	-.033	.0095	-.007	-.041	-.0041	1.8
	-.53	-.010	.0091	-.008	-.045	-.0042	1.8
	.49	.033	.0092	-.010	-.053	-.0041	1.8
	1.01	.055	.0097	-.010	-.057	-.0042	1.8
	2.08	.101	.0115	-.012	-.066	-.0045	1.7
	4.17	.221	.0179	-.017	-.086	-.0046	1.7
	6.27	.287	.031 3	-.021	-.098	-.0043	1.7
	8.36	.384	.0530	-.023	-.107	-.0021	1.7
	10.46	.481	.0824	-.023	-.125	-.0018	1.6
	12.57	.585	.1216	-.021	-.139	-.0018	1.6
	14.69	.690	.1696	-.021	-.154	-.0012	1.6
	16.81	.806	.2279	-.024	-.176	.0032	1.5
	17.86	.855	.2583	-.023	-.188	.0035	1.5
0.80	-4.20	-.179	.0181	.002	-.040	-.0040	1.8
	-2.09	-.082	.0117	-.005	-.057	-.0040	1.7
	-1.08	-.036	.0100	-.008	-.066	-.0038	1.7
	-.53	-.011	.0096	-.009	-.071	-.0038	1.7
	.45	.033	.0100	-.011	-.079	-.0037	1.7
	1.02	.057	.0105	-.012	-.082	-.0038	1.7
	2.10	.104	.0126	-.014	-.098	-.0038	1.6
	4.20	.202	.0204	-.020	-.112	-.0037	1.6
	6.31	.303	.0352	-.025	-.117	-.0026	1.6
	8.43	.406	.0601	-.027	-.122	.0003	1.6
	10.53	.491	.0904	-.022	-.153	-.0008	1.5
	12.65	.599	.1326	-.030	-.176	-.0006	1.5
	14.78	.710	.1833	-.035	-.188	-.0006	1.4
	16.89	.803	.2382	-.037	-.201	0	1.4
	17.94	.845	.2678	-.038	-.227	.0013	1.3
0.90	-4.22	-.201	.0217	.008	-.065	-.0028	1.7
	-2.10	-.096	.0134	-.001	-.083	-.0026	1.7
	-1.08	-.043	.0113	-.005	-.093	-.0027	1.6
	-.55	-.021	.0109	-.007	-.103	-.0027	1.6
	.47	.026	.0113	-.009	-.115	-.0025	1.6
	1.02	.052	.0117	-.010	-.118	-.0026	1.6
	2.10	.102	.0139	-.013	-.126	-.0024	1.5
	4.21	.205	.0224	-.021	-.142	-.0020	1.5
0.90	6.33	0.307	0.0381	-0.025	-0.136	-0.0007	1.5
	8.44	.411	.0629	-.027	-.150	-.0003	1.5
	10.57	.514	.0974	-.033	-.198	0	1.4
1.20	-4.10	-.210	.0287	.033	.001	.0008	1.9
	-2.05	-.107	.0193	.016	-.030	.0006	1.8
	-1.02	-.056	.0158	.009	-.048	.0005	1.7
	-.49	-.033	.0161	.005	-.054	.0003	1.7
	.46	.013	.0159	-.002	-.070	.0008	1.6
	.99	.040	.0166	-.006	-.080	.0001	1.6
	2.03	.089	.0188	-.013	-.103	0	1.6
	4.07	.189	.0275	-.029	-.147	-.0002	1.4
	6.16	.294	.0431	-.045	-.189	-.0008	1.3
	8.21	.400	.0669	-.061	-.212	-.0005	1.2
	10.27	.501	.0969	-.076	-.252	-.0011	1.1
	12.33	.618	.1366	-.093	-.292	-.0014	1.0
1.30	-4.10	-.196	.0302	.030	.062	.0004	2.0
	-2.00	-.101	.0213	.015	.031	-.0003	1.9
	-1.06	-.055	.0191	.008	.081	-.0001	1.9
	-.49	-.031	.0189	.005	0	-.0002	1.9
	.47	.013	.0184	-.001	-.080	0	1.8
	1.00	.038	.0189	-.005	-.032	.0001	1.8
	2.04	.084	.0211	-.012	-.058	0	1.7
	4.09	.177	.0295	-.026	-.101	.0004	1.6
	6.15	.271	.0439	-.040	-.145	.0006	1.4
	8.20	.366	.0657	-.053	-.189	.0004	1.3
	10.26	.497	.0937	-.066	-.225	.0006	1.2
	12.31	.546	.1280	-.079	-.273	.0007	1.0
	14.37	.630	.1683	-.090	-.313	.0004	.9
	16.43	.709	.2134	-.098	-.357	.0003	.8
	17.46	.747	.2360	-.102	-.373	0	.7
1.50	-4.09	-.178	.0281	.027	.091	-.0005	2.1
	-2.04	-.092	.0198	.014	.055	-.0004	2.0
	-1.02	-.048	.0176	.007	.031	-.0002	2.0
	-.51	-.027	.0170	.004	.019	-.0002	1.9
	.41	.021	.0168	-.002	-.001	0	1.9
	.94	.037	.0174	-.005	-.008	0	1.8
	2.04	.080	.0196	-.011	-.034	0	1.8
1.50	4.09	0.165	0.0276	-0.024	-0.079	0.0004	1.6
	6.14	.245	.0407	-.032	-.077	.0005	1.5
	8.19	.334	.0605	-.048	-.163	.0008	1.4
	10.24	.413	.0856	-.060	-.203	.0010	1.2
	12.29	.493	.1162	-.070	-.239	.0013	1.1
	14.34	.567	.1685	-.080	-.277	.0016	1.0
	16.39	.639	.1927	-.088	-.320	.0015	.9
	17.43	.676	.2159	-.093	-.343	.0005	.8
1.70	-4.11	-.161	.0267	.024	.095	-.0004	2.1
	-2.05	-.083	.0189	.013	.057	-.0002	2.0
	-1.02	-.045	.0170	.007	.035	-.0002	2.0
	-.47	-.024	.0166	.004	.024	-.0001	1.9
	.47	.014	.0165	-.002	.003	.0001	1.9
	1.00	.035	.0169	-.005	-.008	.0002	1.8
	2.04	.074	.0187	-.010	-.028	.0002	1.8
	4.10	.151	.0261	-.022	-.071	.0006	1.6
	6.16	.227	.0385	-.032	-.112	.0010	1.5
	8.23	.303	.0563	-.043	-.151	.0012	1.4
	10.28	.373	.0789	-.051	-.183	.0015	1.3
	12.27	.444	.1058	-.061	-.217	.0018	1.2
	14.31	.511	.1378	-.068	-.251	.0022	1.1
	16.37	.575	.1746	-.074	-.289	.0022	1.0
	17.39	.609	.1956	-.074	-.307	.0020	.9
1.90	-4.07	-.144	.0263	.020	.083	-.0004	2.1
	-2.03	-.074	.0196	.010	.046	-.0002	2.0
	-.99	-.039	.0178	.005	.023	-.0002	1.9
	-.47	-.021	.0172	.004	.014	-.0001	1.9
	.46	.012	.0169	-.002	-.004	0	1.8
	.99	.031	.0172	-.005	-.014	0	1.8
	2.03	.067	.0186	-.009	-.032	.0001	1.8
	4.08	.136	.0250	-.019	-.068	.0005	1.6
	6.12	.204	.0361	-.027	-.104	.0006	1.5
	8.15	.270	.0517	-.036	-.139	.0011	1.4
	10.20	.335	.0722	-.043	-.169	.0012	1.3
	12.23	.387	.0964	-.050	-.196	.0018	1.3
	14.29	.438	.1253	-.056	-.224	.0021	1.2
	16.34	.516	.1585	-.060	-.256	.0023	1.1
	17.36	.546	.1776	-.061	-.269	.0026	1.0

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.17	-0.190	0.0178	0.008	0.024	0	0
	-2.08	-.098	.0120	.003	.005	-.0002	0
	-1.02	-.054	.0100	.001	-.002	-.0003	-.1
	-.50	-.032	.0095	0	-.007	-.0003	-.1
	.47	.012	.0094	-.001	-.015	-.0004	-.1
	1.00	.036	.0096	-.002	-.020	-.0006	-.1
	2.06	.080	.0112	-.004	-.030	-.0007	-.1
	4.16	.170	.0171	-.008	-.046	-.0009	-.1
	6.25	.265	.0288	-.013	-.057	-.0005	-.2
	8.36	.364	.0506	-.015	-.070	.0012	-.2
	10.45	.461	.0794	-.019	-.089	.0013	-.2
	12.57	.565	.1188	-.014	-.105	.0011	-.2
	14.67	.666	.1651	-.014	-.120	.0018	-.3
	16.80	.786	.2248	-.017	-.143	.0051	-.3
	17.89	.832	.2547	-.017	-.153	.0062	-.3
0.80	-4.21	-.202	.0196	.010	.006	.0002	0
	-2.11	-.102	.0123	.004	-.013	-.0001	0
	-1.03	-.055	.0102	.002	-.024	-.0002	0
	-.50	-.033	.0097	0	-.029	-.0003	0
	.48	.014	.0095	-.002	-.039	-.0002	-.1
	1.01	.038	.0100	-.003	-.045	-.0002	-.1
	2.08	.087	.0118	-.006	-.058	-.0003	-.1
	4.18	.182	.0180	-.012	-.071	-.0002	-.1
	6.30	.284	.0329	-.017	-.077	.0007	-.1
	8.41	.384	.0567	-.018	-.088	.0037	-.2
	10.52	.476	.0881	-.016	-.119	.0020	-.2
	12.65	.583	.1290	-.022	-.138	.0019	-.3
	14.78	.695	.1797	-.028	-.152	.0023	-.3
	16.88	.784	.2329	-.030	-.165	.0032	-.3
	17.94	.828	.2634	-.031	-.190	.0040	-.4
0.90	-4.23	-.219	.0223	.016	-.018	.0009	-.1
	-2.11	-.115	.0136	.009	-.029	.0010	-.1
	-1.05	-.064	.0112	.004	-.041	.0011	-.2
	-.51	-.039	.0105	.003	-.046	.0011	-.2
	.47	.009	.0104	.001	-.055	.0012	-.2
	1.01	.034	.0110	-.001	-.062	.0010	-.2
	2.08	.083	.0129	-.004	-.069	.0011	-.2
	4.20	.186	.0209	-.011	-.088	.0014	-.3
	6.32	.289	.0361	-.016	-.090	.0028	-.3
0.90	8.43	0.387	0.0582	-0.017	-0.108	0.0027	-0.3
	10.56	.491	.0986	-.023	-.157	.0026	-.4
	12.69	.599	.1355	-.032	-.195	.0027	-.5
1.20	-4.10	-.221	.0254	.038	.045	.0030	0
	-2.05	-.120	.0199	.022	.017	.0029	0
	-1.02	-.070	.0171	.015	.000	.0029	-.1
	-.49	-.045	.0164	.011	-.005	.0028	-.1
	.52	.006	.0163	.004	-.020	.0027	-.1
	1.00	.031	.0169	0	-.028	.0027	-.1
	2.04	.079	.0189	-.007	-.049	.0025	-.2
	4.09	.179	.0271	-.023	-.098	.0022	-.3
	6.15	.283	.0422	-.038	-.128	.0023	-.3
	8.21	.389	.0655	-.054	-.152	.0035	-.5
	10.27	.490	.0953	-.068	-.190	.0049	-.6
	12.33	.587	.1311	-.084	-.242	.0046	-.8
	14.42	.686	.1769	-.082	-.268	.0003	-.8
1.30	-4.10	-.203	.0309	.035	.103	.0015	.2
	-2.05	-.105	.0220	.020	.074	.0018	.1
	-1.02	-.063	.0195	.013	.057	.0018	0
	-.49	-.038	.0187	.010	.047	.0019	0
	.51	.009	.0186	.003	.025	.0020	0
	1.00	.031	.0192	0	.013	.0020	0
	2.05	.078	.0218	-.007	-.009	.0019	-.1
	4.10	.170	.0293	-.021	-.055	.0023	-.2
	6.15	.264	.0434	-.035	-.098	.0027	-.4
	8.21	.360	.0651	-.048	-.142	.0024	-.5
	10.26	.450	.0926	-.061	-.175	.0029	-.6
	12.32	.539	.1268	-.072	-.222	.0028	-.7
	14.37	.619	.1693	-.081	-.259	.0038	-.8
	16.43	.701	.2111	-.091	-.307	.0069	-1.0
	17.47	.738	.2357	-.095	-.321	.0022	-1.0
1.50	-4.09	-.184	.0289	.031	.130	.0013	.3
	-2.04	-.098	.0204	.018	.093	.0014	.2
	-1.01	-.059	.0180	.012	.073	.0014	.2
	-.48	-.033	.0174	.008	.064	.0015	.1
	.52	.011	.0173	.002	.043	.0017	.1
	.99	.033	.0178	-.001	.032	.0017	0
	2.04	.075	.0197	-.007	.010	.0018	0
1.50	4.09	0.160	0.0275	0.000	0.033	0.0020	-0.1
	6.14	.243	.0407	-.032	-.077	.0025	-.2
	8.20	.330	.0599	-.043	-.120	.0026	-.3
	10.25	.411	.0851	-.055	-.159	.0026	-.3
	12.29	.489	.1152	-.066	-.196	.0030	-.6
	14.35	.563	.1505	-.075	-.233	.0033	-.7
	16.40	.634	.1905	-.082	-.278	.0039	-.8
	17.43	.672	.2140	-.087	-.299	.0026	-.9
1.70	-4.09	-.167	.0277	.027	.138	.0010	.4
	-2.04	-.089	.0199	.016	.098	.0012	.3
	-1.00	-.050	.0177	.010	.077	.0013	.2
	-.48	-.029	.0171	.007	.065	.0014	.2
	.52	.011	.0170	.001	.043	.0015	.1
	.99	.030	.0174	-.001	.034	.0016	.1
	2.04	.070	.0193	-.007	.013	.0018	0
	4.08	.146	.0264	-.018	-.024	.0020	0
	6.14	.224	.0386	-.029	-.069	.0024	-.2
	8.19	.300	.0559	-.039	-.108	.0025	-.3
	10.23	.369	.0779	-.048	-.142	.0028	-.4
	12.28	.440	.1058	-.057	-.179	.0031	-.5
	14.33	.508	.1374	-.065	-.214	.0035	-.7
	16.38	.573	.1741	-.070	-.248	.0036	-.8
	17.41	.606	.1946	-.073	-.270	.0032	-.8
1.90	-4.08	-.149	.0277	.023	.121	.0004	.2
	-2.04	-.077	.0200	.013	.083	.0006	.1
	-1.00	-.044	.0180	.008	.064	.0007	.1
	-.49	-.025	.0174	.005	.052	.0007	0
	.47	.010	.0171	.001	.038	.0006	0
	.99	.028	.0173	-.002	.024	.0009	0
	2.03	.063	.0187	-.006	.005	.0010	0
	4.07	.132	.0250	-.016	-.028	.0012	-.1
	6.11	.200	.0339	-.025	-.067	.0016	-.3
	8.16	.267	.0516	-.033	-.102	.0019	-.4
	10.21	.333	.0719	-.040	-.137	.0019	-.5
	12.24	.395	.0960	-.048	-.165	.0025	-.6
	14.29	.455	.1245	-.054	-.193	.0028	-.6
	16.34	.515	.1576	-.057	-.226	.0030	-.7
	17.37	.544	.1762	-.058	-.240	.0032	-.8

TABLE VIII.- CONTINUED



(c) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.19	0.205	0.0196	0.015	0.044	0.0036	-2.0	0.90	6.31	0.278	0.0341	-0.007	0.048	0.0063	-2.2	1.50	2.04	0.068	0.0197	-0.004	0.046	0.0034	-1.9
	-2.10	.112	.0130	.011	.027	.0032	-2.0		8.43	.371	.0569	-.009	-.073	.0054	-2.2		4.09	.153	.0270	-.016	.001	.0037	-2.0
	-1.03	-.071	.0106	.009	.018	.0033	-2.0		10.55	.472	.0892	-.015	-.113	.0054	-2.3		6.14	.236	.0329	-.028	-.037	.0040	-2.2
	-.51	-.047	.0100	.008	.015	.0033	-2.0		12.67	.580	.1320	-.025	-.147	.0055	-2.4		8.20	.323	.0391	-.040	-.079	.0039	-2.3
	.46	-.003	.0096	.007	.007	.0033	-2.0										10.24	.402	.0533	-.052	-.118	.0041	-2.4
	1.03	.019	.0099	.006	.002	.0031	-2.1	1.20	-4.11	-.289	.0301	.043	.082	.0051	-1.8		12.30	.481	.1133	-.068	-.155	.0043	-2.5
	2.05	.065	.0111	.004	-.005	.0029	-2.1		-2.05	-.186	.0201	.027	.056	.0051	-1.9		14.35	.555	.1483	-.078	-.198	.0047	-2.7
	4.15	.153	.0162	0	-.014	.0027	-2.1		-1.02	-.077	.0172	.020	.040	.0051	-1.9		16.41	.626	.1884	-.079	-.239	.0053	-2.8
	6.25	.248	.0272	-.004	-.028	.0031	-2.1		-.49	-.053	.0164	.016	.034	.0052	-2.0		17.43	.663	.2107	-.083	-.260	.0045	-2.9
	8.34	.346	.0480	-.008	-.041	.0047	-2.1		.47	-.001	.0158	.009	.020	.0051	-2.0								
	10.44	.447	.0766	-.008	-.062	.0045	-2.2		1.00	.023	.0163	.005	.013	.0049	-2.0	1.70	-4.09	-.172	.0269	.031	.171	.0024	-1.5
	12.56	.549	.1141	-.007	-.078	.0043	-2.2		2.05	.071	.0180	-.001	-.000	.0049	-2.1		-2.04	-.094	.0203	.019	.137	.0026	-1.6
	14.66	.650	.1590	-.007	-.095	.0046	-2.2		4.10	.169	.0257	-.017	-.043	.0047	-2.2		-1.01	-.054	.0179	.014	.116	.0027	-1.7
	16.78	.767	.2164	-.011	-.120	.0086	-2.3		6.15	.278	.0401	-.032	-.076	.0048	-2.3		-.49	-.035	.0172	.011	.106	.0028	-1.7
	17.85	.819	.2477	-.011	-.131	.0087	-2.3		8.21	.381	.0632	-.048	-.096	.0057	-2.3		.52	.005	.0168	.005	.084	.0029	-1.8
									10.27	.477	.0913	-.061	-.130	.0073	-2.4		1.00	.025	.0172	.002	.073	.0030	-1.8
0.80	-4.22	-.217	.0213	.020	.039	.0037	-2.0		12.33	.584	.1282	-.076	-.183	.0075	-2.6		2.04	.064	.0188	-.004	.055	.0031	-1.9
	-2.12	-.121	.0135	.013	.021	.0037	-2.0										4.09	.141	.0258	-.015	.011	.0033	-2.0
	-1.05	-.074	.0110	.011	.013	.0038	-2.0	1.30	-4.10	-.209	.0321	.039	.132	.0033	-1.7		6.14	.218	.0375	-.026	-.027	.0036	-2.1
	-.52	-.051	.0102	.010	.010	.0038	-2.0		-2.04	-.115	.0228	.024	.104	.0036	-1.7		8.19	.293	.0545	-.036	-.068	.0037	-2.3
	.54	-.004	.0097	.008	.002	.0036	-2.0		-1.02	-.068	.0201	.017	.090	.0038	-1.8		10.25	.363	.0765	-.045	-.106	.0039	-2.4
	1.04	.019	.0100	.007	-.001	.0037	-2.1		-.49	-.044	.0194	.014	.082	.0038	-1.8		12.28	.434	.1037	-.055	-.142	.0048	-2.5
	2.07	.068	.0115	.004	-.011	.0035	-2.1		.51	.001	.0189	.008	.063	.0039	-1.9		14.32	.502	.1348	-.062	-.177	.0046	-2.6
	4.18	.164	.0179	-.002	-.031	.0034	-2.1		1.05	.026	.0193	.004	.052	.0039	-1.9		16.38	.567	.1714	-.068	-.211	.0047	-2.7
	6.30	.266	.0315	-.008	-.036	.0043	-2.1		2.04	.071	.0212	-.003	.029	.0038	-2.0		17.41	.600	.1917	-.070	-.231	.0046	-2.8
	8.40	.367	.0544	-.010	-.052	.0071	-2.2		4.10	.163	.0288	-.017	-.012	.0042	-2.1								
	10.51	.459	.0814	-.009	-.068	.0046	-2.3		6.15	.257	.0426	-.030	-.054	.0043	-2.2	1.90	-4.08	-.152	.0275	.026	.160	.0081	-1.5
	12.64	.569	.1260	-.016	-.104	.0049	-2.3		8.21	.354	.0638	-.044	-.096	.0042	-2.3		-2.05	-.083	.0199	.016	.125	.0022	-1.7
	14.76	.674	.1737	-.020	-.116	.0052	-2.3		10.26	.440	.0904	-.056	-.128	.0048	-2.4		-1.01	-.047	.0178	.011	.105	.0024	-1.7
	16.88	.769	.2288	-.022	-.136	.0060	-2.4		12.32	.529	.1238	-.068	-.176	.0047	-2.6		-.48	-.028	.0174	.009	.093	.0024	-1.8
	17.91	.811	.2571	-.023	-.159	.0062	-2.4		14.37	.608	.1617	-.076	-.208	.0058	-2.7		.52	.006	.0170	.004	.073	.0025	-1.8
									16.43	.691	.2073	-.086	-.258	.0048	-2.8		1.00	.024	.0173	.001	.065	.0026	-1.8
0.90	-4.24	-.239	.0241	.026	.028	.0046	-2.0		17.47	.730	.2318	-.090	-.273	.0039	-2.9		2.03	.059	.0186	-.003	.046	.0026	-1.9
	-2.12	-.131	.0140	.018	.009	.0046	-2.0										4.08	.128	.0248	-.013	.007	.0028	-2.0
	-1.07	-.082	.0115	.014	0	.0048	-2.1	1.50	-4.09	-.191	.0299	.035	.158	.0029	-1.6		6.13	.196	.0359	-.022	-.027	.0030	-2.1
	-.53	-.058	.0106	.013	-.004	.0049	-2.1		-2.04	-.104	.0210	.019	.184	.0030	-1.7		8.17	.264	.0510	-.030	-.064	.0033	-2.3
	.45	-.010	.0101	.011	-.004	.0050	-2.1		-1.01	-.061	.0184	.015	.107	.0032	-1.7		10.22	.331	.0718	-.038	-.100	.0033	-2.4
	1.04	.016	.0103	.009	-.010	.0048	-2.1		-.48	-.039	.0175	.012	.096	.0033	-1.8		12.26	.392	.0948	-.045	-.139	.0038	-2.5
	2.07	.066	.0119	.006	-.022	.0048	-2.1		.51	.005	.0172	.006	.078	.0033	-1.8		14.30	.452	.1289	-.051	-.198	.0041	-2.6
	4.19	.168	.0193	-.002	-.040	.0050	-2.2		1.00	.027	.0177	.002	.069	.0034	-1.8		16.35	.511	.1551	-.054	-.191	.0043	-2.7
																	17.38	.541	.1742	-.056	-.204	.0045	-2.7

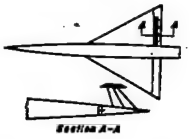
(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.21	-0.225	0.0211	0.024	0.070	0.0071	-4.2	0.90	6.31	0.252	0.0323	0.002	-0.011	0.0099	-4.1	1.50	2.04	0.063	0.0208	0	0.079	0.0050	-3.8
	-2.11	-.133	.0144	.019	.033	.0069	-4.2		8.42	.354	.0556	-.001	-.023	.0090	-4.1		4.09	.149	.0273	-.013	.036	.0052	-3.9
	-1.05	-.089	.0120	.017	.046	.0069	-4.1		10.55	.461	.0892	-.008	-.033	.0096	-4.1		6.15	.232	.0399	-.025	-.005	.0054	-4.1
	-.53	-.066	.0111	.016	.043	.0071	-4.1										8.20	.317	.0564	-.037	-.044	.0054	-4.2
	.46	-.022	.0105	.015	.036	.0069	-4.1	1.20	-4.10	.236	.0320	.048	.116	.0071	-3.7		10.25	.395	.0823	-.047	-.083	.0054	-4.3
	1.01	0	.0103	.014	.032	.0069	-4.1		-2.05	-.139	.0217	.032	.092	.0073	-3.8		12.30	.475	.1118	-.059	-.119	.0057	-4.4
	2.09	.048	.0116	.012	.021	.0064	-4.1		-1.02	-.085	.0186	.025	.077	.0074	-3.8		14.35	.550	.1464	-.069	-.156	.0060	-4.5
	4.14	.136	.0159	.008	.005	.0064	-4.1		-.50	-.060	.0177	.022	.071	.0073	-3.8		16.41	.621	.1859	-.076	-.204	.0065	-4.7
	6.24	.239	.0263	.003	-.002	.0068	-4.0		.46	-.011	.0171	.015	.058	.0073	-3.9		17.43	.658	.2081	-.080	-.223	.0059	-4.8
	8.34	.329	.0463	0	-.019	.0081	-4.0		1.04	.014	.0175	.011	.052	.0073	-3.9								
	10.45	.435	.0748	-.002	-.041	.0080	-4.0		2.05	.062	.0191	.004	.036	.0071	-3.9	1.70	-4.08	.178	.0293	.034	.200	.0038	-3.4
	12.56	.537	.1117	-.001	-.058	.0073	-3.9		4.10	.161	.0267	-.012	-.003	.0071	-4.1		-2.03	-.099	.0218	.022	.168	.0040	-3.9
	14.66	.641	.1573	-.001	-.076	.0077	-3.9		6.15	.263	.0408	-.027	-.030	.0070	-4.1		-1.01	-.060	.0183	.017	.150	.0041	-3.6
	16.79	.758	.2140	-.005	-.101	.0114	-3.9		8.22	.371	.0634	-.042	-.051	.0079	-4.2		-.48	-.035	.0181	.014	.140	.0041	-3.6
	17.84	.810	.2449	-.005	-.111	.0116	-3.8		10.28	.465	.0910	-.055	-.083	.0095	-4.3		.51	.001	.0176	.008	.120	.0042	-3.7
									12.34	.573	.1280	-.071	-.136	.0096	-4.5		1.06	.021	.0183	.005	.111	.0043	-3.7
0.80	-4.03	.187	.0239	.029	.067	.0074	-3.9		14.42	.672	.1740	-.077	-.183	.0078	-4.5		2.04	.060	.0194	0	.091	.0045	-3.8
	-2.01	-.139	.0149	.022	.048	.0072	-3.9										4.09	.135	.0260	-.012	.049	.0046	-3.9
	-.99	-.094	.0123	.019	.040	.0075	-4.0	1.30	-4.09	.217	.0339	.043	.132	.0058	-3.6		6.13	.213	.0376	-.023	.005	.0049	-4.0
	-.48	-.070	.0114	.018	.036	.0076	-4.0		-2.04	-.122	.0238	.029	.189	.0054	-3.7		8.18	.290	.0545	-.033	-.036	.0049	-4.2
	.45	-.025	.0107	.017	.030	.0077	-4.0		-1.01	-.078	.0209	.022	.180	.0058	-3.7		10.23	.360	.0763	-.043	-.073	.0050	-4.3
	1.00	0	.0108	.016	.025	.0075	-4.0		-.50	-.052	.0201	.019	.110	.0058	-3.7		12.28	.431	.1030	-.052	-.112	.0053	-4.4
	2.08	.049	.0119	.013	.014	.0072	-4.0		.46	-.006	.0195	.012	.093	.0059	-3.8		14.33	.500	.1345	-.060	-.147	.0057	-4.5
	4.13	.141	.0174	.007	.001	.0073	-4.1		1.04	.019	.0199	.008	.059	.0058	-3.8		16.38	.564	.1705	-.066	-.181	.0058	-4.6
	6.21	.246	.0304	.001	-.003	.0086	-4.1		2.04	.064	.0215	.002	.061	.0057	-3.9		17.40	.596	.1908	-.068	-.201	.0054	-4.7
	8.30	.351	.0520	-.002	-.026	.0104	-4.1		4.10	.157	.0269	-.012	.018	.0060	-4.0								
	10.38	.449	.0822	-.002	-.058	.0076	-4.2		6.15	.250	.0424	-.026	-.020	.0060	-4.1	1.90	-4.08	.158	.0298	.029	.191	.0034	-3.5
	12.48	.551	.1223	-.009	-.072	.0080	-4.2		8.21	.346	.0638	-.040	-.062	.0058	-4.2		-2.03	-.089	.0217	.019	.158	.0035	-3.6
	14.57	.660	.1715	-.013	-.085	.0083	-4.2		10.26	.434	.0896	-.052	-.088	.0066	-4.3		-1.00	-.052	.0194	.014	.139	.0035	-3.6
	16.66	.757	.2278	-.016	-.112	.0092	-4.3		12.33	.524	.1231	-.064	-.139	.0064	-4.5		-.48	-.034	.0188	.011	.130	.0036	-3.7
	17.71	.797	.2562	-.018	-.130	.0095	-4.4		14.38	.603	.1608	-.073	-.171	.0076	-4.6		.51	0	.0181	.006	.111	.0035	-3.7
									16.44	.687	.2058	-.083	-.219	.0064	-4.7		1.08	.019	.0182	.004	.100	.0037	-3.7
0.90	-4.13	.159	.0187	.046	.073	.0087	-3.9		17.46	.725	.2304	-.087	-.234	.0056	-4.8		2.06	.054	.0193	-.001	.081	.0037	-3.8
	-2.13	-.152	.0158	.027	.055	.0083	-3.9										4.10	.122	.0250	-.010	.043	.0039	-3.9
	-1.08	-.102	.0127	.024	.050	.0087	-3.9	1.50	-4.09	.194	.0309	.038	.180	.0042	-3.5		6.14	.192	.0356	-.020	.003	.0041	-4.0
	-.53	-.077	.0118	.023	.050	.0089	-3.9		-2.04	-.109	.0220	.025	.154	.0043	-3.6		8.19	.259	.0508	-.028	-.033	.0043	-4.2
	.43	-.030	.0107	.021	.041	.0089	-4.0		-1.02	-.066	.0193	.019	.139	.0046	-3.6		10.23	.324	.0704	-.036	-.071	.0042	-4.3
	1.03	-.005	.0108	.020	.035	.0089	-4.0		-.49	-.044	.0185	.016	.130	.0047	-3.6		12.28	.387	.0939	-.043	-.102	.0046	-4.4
	2.11	.047	.0120	.016	.017	.0088	-4.0		.47	-.001	.0180	.010	.112	.0048	-3.7		14.30	.447	.1218	-.049	-.132	.0050	-4.5
	4.18	.150	.0187	.008	-.002	.0090	-4.1		1.04	.020	.0185	.006	.104	.0050	-3.7		16.35	.506	.1542	-.053	-.164	.0058	-4.6
																	17.38	.534	.1728	-.054	-.178	.0054	-4.6

NACA

[redacted]

TABLE VIII.- CONTINUED



(e) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.23	-0.258	0.0267	0.037	0.135	0.0134	-7.8	0.90	6.28	0.222	0.0326	0.019	0.139	0.0164	-7.7	1.50	2.09	0.054	0.0217	0.006	0.139	0.0076	-7.6
	-2.14	-.166	.0181	.033	.122	.0131	-7.8		8.40	.324	.0542	.015	.141	.0149	-7.7		4.10	.137	.0282	-.006	.097	.0078	-7.7
	-1.09	-.123	.0152	.032	.116	.0133	-7.8		10.52	.440	.0873	.004	.108	.0141	-7.8		6.16	.223	.0403	-.019	.057	.0080	-7.9
	-.57	-.101	.0139	.031	.114	.0135	-7.9										8.22	.307	.0585	-.030	.022	.0078	-8.0
	.44	-.060	.0128	.030	.109	.0136	-7.9	1.20	-4.10	-.254	.0359	.058	.206	.0111	-7.4		10.28	.387	.0821	-.042	-.014	.0079	-8.0
	.93	-.037	.0126	.030	.106	.0137	-7.9		-2.05	-.152	.0247	.042	.184	.0115	-7.5		12.34	.467	.1111	-.053	-.049	.0083	-8.2
	2.02	.008	.0126	.028	.095	.0132	-7.9		-1.01	-.103	.0212	.035	.173	.0117	-7.5		14.40	.542	.1457	-.062	-.086	.0085	-8.3
	4.15	.099	.0161	.024	.076	.0132	-7.9		-.51	-.078	.0201	.032	.166	.0117	-7.6		16.45	.614	.1851	-.070	-.133	.0088	-8.5
	6.26	.195	.0244	.019	.066	.0133	-7.9		.45	-.030	.0193	.025	.153	.0116	-7.6		17.48	.650	.2068	-.073	-.152	.0084	-8.5
	8.31	.293	.0422	.014	.047	.0142	-8.0		.99	-.003	.0192	.021	.148	.0116	-7.6								
	10.42	.400	.0702	.012	.023	.0139	-8.0		2.10	.047	.0207	.014	.138	.0114	-7.7	1.70	-4.09	-.187	.0329	.040	.254	.0064	-7.2
	12.52	.502	.1057	.012	-.003	.0129	-8.1		4.11	.144	.0276	-.001	.099	.0112	-7.8		-2.03	-.108	.0239	.029	.227	.0066	-7.3
	14.64	.609	.1503	.012	-.016	.0130	-8.1		6.17	.246	.0412	-.016	.078	.0117	-7.8		-1.01	-.070	.0213	.023	.213	.0066	-7.4
	16.77	.728	.2065	.007	-.041	.0164	-8.1		8.22	.352	.0627	-.032	.046	.0124	-7.9		-.49	-.050	.0205	.020	.205	.0068	-7.4
	17.83	.780	.2365	.007	-.053	.0163	-8.1		10.28	.452	.0902	-.045	.014	.0132	-8.0		.45	-.010	.0200	.014	.188	.0068	-7.4
									12.35	.560	.1267	-.061	-.038	.0133	-8.2		1.04	.010	.0201	.011	.186	.0070	-7.5
0.80	-4.25	-.273	.0297	.044	.145	.0137	-7.7		14.42	.657	.1709	-.067	-.062	.0113	-8.2		2.08	.051	.0213	.005	.160	.0070	-7.5
	-2.13	-.173	.0194	.037	.126	.0135	-7.8										4.09	.126	.0271	-.006	.117	.0071	-7.7
	-1.09	-.126	.0163	.035	.123	.0138	-7.8	1.30	-4.09	-.230	.0369	.058	.221	.0086	-7.4		6.14	.204	.0364	-.017	.074	.0072	-7.8
	-.57	-.106	.0151	.035	.123	.0142	-7.8		-2.03	-.135	.0266	.037	.200	.0090	-7.4		8.19	.280	.0548	-.027	.031	.0071	-8.0
	.40	-.062	.0136	.033	.120	.0144	-7.8		-1.01	-.090	.0235	.030	.189	.0093	-7.5		10.24	.354	.0764	-.037	-.009	.0071	-8.1
	.92	-.039	.0133	.032	.115	.0145	-7.8		-.50	-.066	.0224	.027	.184	.0093	-7.5		12.28	.423	.1023	-.045	-.046	.0074	-8.2
	2.05	.010	.0135	.029	.097	.0141	-7.8		.48	-.020	.0214	.021	.170	.0094	-7.5		14.34	.491	.1332	-.054	-.083	.0077	-8.3
	4.20	.108	.0174	.024	.076	.0140	-7.9		1.04	.005	.0217	.017	.164	.0095	-7.6		16.39	.557	.1691	-.060	-.116	.0078	-8.4
	6.24	.208	.0283	.018	.071	.0140	-7.9		2.09	.052	.0231	.010	.144	.0094	-7.6		17.41	.589	.1885	-.063	-.139	.0076	-8.5
	8.37	.312	.0480	.013	.042	.0130	-8.0		4.10	.144	.0299	-.004	.100	.0094	-7.7								
	10.48	.411	.0764	.012	.018	.0161	-8.0		6.16	.238	.0428	-.018	.066	.0094	-7.9	1.90	-4.07	-.168	.0326	.034	.255	.0057	-7.4
	12.60	.519	.1152	.007	.002	.0135	-8.1		8.21	.333	.0628	-.031	.029	.0092	-8.0		-2.03	-.097	.0240	.024	.225	.0058	-7.5
	14.73	.629	.1640	.002	-.012	.0139	-8.1		10.28	.421	.0885	-.042	0	.0103	-8.1		-1.01	-.062	.0215	.019	.209	.0059	-7.5
	16.83	.721	.2158	0	-.036	.0146	-8.1		12.33	.511	.1211	-.055	-.051	.0100	-8.2		-.48	-.044	.0207	.017	.200	.0059	-7.5
	17.89	.764	.2435	-.002	-.047	.0152	-8.2		14.39	.593	.1588	-.065	-.082	.0107	-8.3		.45	-.009	.0199	.012	.183	.0059	-7.6
									16.45	.676	.2034	-.073	-.129	.0094	-8.4		1.03	.010	.0199	.009	.174	.0059	-7.6
0.90	-4.27	-.290	.0328	.051	.186	.0141	-7.6		17.47	.715	.2277	-.079	-.141	.0085	-8.5		2.03	.046	.0210	.004	.155	.0060	-7.7
	-2.15	-.181	.0207	.042	.165	.0137	-7.7										4.06	.115	.0263	-.005	.114	.0061	-7.8
	-1.09	-.131	.0172	.039	.169	.0140	-7.6	1.50	-4.10	-.204	.0344	.044	.235	.0068	-7.3		6.12	.183	.0362	-.014	.074	.0062	-7.9
	-.57	-.108	.0158	.038	.179	.0144	-7.6		-2.05	-.118	.0246	.031	.210	.0071	-7.4		8.16	.251	.0507	-.023	.034	.0063	-8.1
	.40	-.061	.0151	.035	.164	.0144	-7.7		-1.02	-.075	.0217	.025	.209	.0073	-7.4		10.20	.316	.0699	-.031	-.005	.0061	-8.2
	.93	-.035	.0138	.034	.160	.0144	-7.7		-.50	-.054	.0207	.022	.187	.0074	-7.5		12.25	.380	.0931	-.038	-.043	.0065	-8.3
	2.07	.014	.0144	.031	.151	.0147	-7.7		.46	-.012	.0200	.016	.172	.0076	-7.5		14.29	.441	.1207	-.044	-.076	.0068	-8.4
	4.21	.119	.0195	.024	.125	.0151	-7.8		1.04	.010	.0204	.011	.163	.0078	-7.5		16.34	.501	.1528	-.049	-.107	.0070	-8.5
																	17.36	.531	.1713	-.050	-.120	.0073	-8.5

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	-0.287	0.0316	0.048	0.177	0.0183	-11.7	0.90	6.32	0.203	0.0347	0.027	0.174	0.0196	-11.6	1.50	2.09	0.044	0.0240	0.012	0.194	0.0101	-11.4
	-2.15	-.197	.0218	.043	.159	.0179	-11.8		8.39	.307	.0546	.021	.154	.0170	-11.7		4.10	.128	.0299	-.001	.150	.0101	-11.6
	-1.11	-.153	.0185	.042	.157	.0182	-11.8		10.51	.417	.0862	.014	.167	.0168	-11.7		6.16	.214	.0416	-.014	.110	.0102	-11.7
	-.59	-.133	.0170	.042	.154	.0185	-11.8		12.64	.528	.1276	.004	.153	.0167	-11.7		8.22	.297	.0591	-.025	.079	.0101	-11.8
	.46	-.095	.0151	.042	.154	.0189	-11.8										10.27	.380	.0826	-.036	.041	.0101	-11.9
	.99	-.073	.0147	.041	.151	.0189	-11.8	1.20	-4.10	-.271	.0413	.068	.262	.0185	-11.3		12.33	.460	.1113	-.047	.010	.0104	-12.0
	2.00	-.028	.0143	.039	.139	.0186	-11.8		-2.04	-.221	.0300	.081	.243	.0153	-11.3		14.38	.536	.1453	-.057	-.030	.0105	-12.1
	4.13	.065	.0165	.036	.121	.0184	-11.8		-2.05	-.171	.0294	.058	.237	.0158	-11.4		16.44	.607	.1839	-.064	-.072	.0111	-12.3
	6.24	.159	.0234	.031	.106	.0184	-11.9		-.50	-.097	.0243	.042	.232	.0159	-11.4		17.47	.642	.2051	-.068	-.091	.0106	-12.3
	8.34	.258	.0387	.027	.089	.0192	-11.9		.49	-.050	.0229	.035	.226	.0161	-11.4								
	10.40	.361	.0654	.024	.067	.0191	-11.9		1.02	-.024	.0229	.032	.220	.0160	-11.4	1.70	-4.09	-.195	.0364	.044	.279	.0084	-11.2
	12.51	.462	.1001	.024	.049	.0180	-12.0		2.08	.027	.0239	.025	.209	.0160	-11.4		-2.04	-.118	.0269	.034	.259	.0086	-11.2
	14.62	.568	.1423	.024	.029	.0179	-12.0		4.11	.126	.0301	.009	.179	.0157	-11.5		-1.01	-.080	.0240	.028	.248	.0090	-11.3
	16.73	.687	.1967	.018	.007	.0208	-12.0		6.17	.228	.0431	-.006	.151	.0158	-11.6		-.49	-.059	.0230	.025	.242	.0090	-11.3
	17.81	.739	.2257	.018	-.002	.0207	-12.1		8.23	.335	.0639	-.022	.120	.0164	-11.7		.51	-.020	.0222	.020	.226	.0092	-11.3
									10.30	.439	.0913	-.036	.084	.0165	-11.8		1.03	.008	.0222	.017	.221	.0092	-11.4
0.80	-4.27	-.290	.0347	.050	.191	.0155	-11.6		12.36	.547	.1272	-.053	.039	.0164	-11.9		2.08	.042	.0234	.011	.202	.0092	-11.4
	-2.16	-.192	.0240	.044	.186	.0161	-11.6		14.44	.647	.1698	-.059	-.013	.0141	-12.0		4.10	.118	.0287	-.001	.161	.0093	-11.5
	-1.11	-.147	.0203	.042	.186	.0161	-11.6										6.15	.196	.0334	-.012	.120	.0094	-11.7
	-.59	-.126	.0191	.042	.192	.0059	-11.6	1.30	-4.09	-.246	.0431	.060	.273	.0183	-11.2		8.20	.272	.0533	-.023	.078	.0091	-11.8
	.47	-.083	.0173	.041	.195	.0172	-11.6		-2.04	-.151	.0320	.046	.256	.0127	-11.3		10.25	.347	.0767	-.032	.043	.0090	-11.9
	.95	-.061	.0166	.040	.189	.0172	-11.6		-1.01	-.107	.0285	.039	.248	.0130	-11.3		12.30	.418	.1023	-.042	.006	.0092	-12.0
	2.03	-.014	.0166	.038	.172	.0174	-11.7		-.50	-.083	.0272	.036	.243	.0131	-11.3		14.35	.486	.1326	-.050	-.032	.0094	-12.2
	4.18	.084	.0195	.033	.146	.0179	-11.7		.44	-.057	.0259	.029	.230	.0132	-11.4		16.41	.552	.1683	-.056	-.065	.0094	-12.3
	6.29	.186	.0296	.029	.136	.0189	-11.7		.97	-.012	.0258	.026	.224	.0131	-11.4		17.43	.585	.1861	-.059	-.084	.0092	-12.3
	8.36	.285	.0476	.023	.106	.0198	-11.8		2.08	.036	.0267	.019	.207	.0130	-11.4								
	10.48	.382	.0764	.023	.095	.0178	-11.8		4.11	.130	.0328	.004	.168	.0128	-11.6	1.90	-4.07	-.176	.0358	.039	.287	.0078	-11.2
	12.60	.491	.1189	.018	.054	.0188	-11.8		6.16	.222	.0451	-.009	.140	.0130	-11.6		-2.03	-.105	.0269	.029	.263	.0079	-11.2
	14.73	.592	.1570	.017	.001	.0201	-11.8		8.21	.317	.0640	-.023	.108	.0127	-11.7		-1.01	-.070	.0244	.024	.250	.0080	-11.3
	16.86	.710	.2145	.007	.110	.0274	-11.8		10.27	.408	.0890	-.035	.098	.0132	-11.9		-.48	-.053	.0235	.022	.243	.0080	-11.3
	17.92	.758	.2436	.004	.119	.0284	-11.8		12.33	.499	.1211	-.047	.116	.0129	-12.0		.47	-.017	.0226	.017	.228	.0080	-11.3
									14.38	.581	.1582	-.057	.011	.0134	-12.0		1.02	.002	.0226	.014	.219	.0080	-11.4
0.90	-4.28	-.303	.0357	.056	.196	.0152	-11.6		16.44	.665	.2021	-.068	.056	.0121	-12.2		2.01	.040	.0234	.009	.204	.0080	-11.4
	-2.17	-.198	.0236	.048	.196	.0160	-11.6		17.46	.702	.2251	-.072	.069	.0111	-12.3		4.08	.108	.0283	-.001	.164	.0079	-11.5
	-1.11	-.149	.0218	.046	.199	.0165	-11.6										6.12	.176	.0375	-.010	.124	.0079	-11.7
	-.58	-.126	.0204	.044	.203	.0168	-11.6	1.50	-4.09	-.216	.0385	.050	.275	.0094	-11.2		8.17	.245	.0518	-.019	.082	.0079	-11.8
	.38	-.078	.0182	.042	.187	.0167	-11.6		-2.04	-.129	.0282	.037	.254	.0097	-11.3		10.21	.312	.0707	-.027	.043	.0077	-11.9
	.92	-.055	.0178	.041	.183	.0168	-11.6		-1.01	-.088	.0249	.031	.240	.0098	-11.3		12.26	.376	.0935	-.035	.001	.0079	-12.0
	2.00	-.003	.0180	.038	.174	.0172	-11.6		-.50	-.065	.0237	.028	.233	.0099	-11.3		14.30	.437	.1207	-.040	-.034	.0081	-12.2
	4.20	.098	.0222	.032	.158	.0180	-11.7		.50	-.024	.0227	.022	.221	.0101	-11.4		16.36	.497	.1524	-.045	-.063	.0083	-12.3
									1.03	-.001	.0229	.019	.215	.0103	-11.4		17.38	.527	.1707	-.046	-.073	.0086	-12.3

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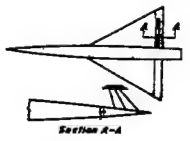
TABLE VIII.- CONTINUED



(g) Nominal δ, -16°

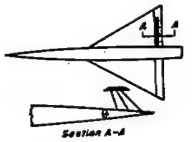
M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.24	-0.300	0.0363	0.093	0.226	0.0197	-15.6
	-2.16	-.211	.0268	.050	.226	.0205	-15.6
	-1.11	-.170	.0235	.050	.228	.0212	-15.6
	-.60	-.149	.0220	.050	.234	.0217	-15.5
	.34	-.114	.0203	.051	.237	.0227	-15.5
	.88	-.092	.0200	.051	.234	.0229	-15.5
	1.92	-.045	.0186	.049	.221	.0229	-15.6
	4.18	.048	.0193	.045	.194	.0225	-15.6
	6.22	.139	.0256	.041	.176	.0228	-15.6
	8.32	.240	.0406	.037	.151	.0235	-15.7
	10.43	.342	.0637	.034	.126	.0236	-15.7
	12.48	.441	.0964	.034	.107	.0226	-15.8
	14.59	.547	.1408	.034	.087	.0228	-15.8
	16.72	.667	.1951	.029	.063	.0254	-15.8
	17.77	.718	.2230	.026	.053	.0254	-15.9
0.80	-4.27	-.302	.0398	.058	.251	.0175	-15.4
	-2.16	-.208	.0284	.052	.247	.0186	-15.4
	-1.12	-.162	.0244	.050	.246	.0189	-15.4
	-.59	-.139	.0218	.049	.249	.0190	-15.4
	.36	-.098	.0210	.048	.249	.0196	-15.4
	.90	-.074	.0203	.045	.247	.0196	-15.4
	1.97	-.027	.0198	.045	.237	.0198	-15.4
	4.16	.068	.0221	.041	.216	.0205	-15.5
	6.27	.169	.0317	.035	.202	.0212	-15.5
	8.40	.281	.0500	.028	.161	.0214	-15.6
	10.47	.380	.0763	.027	.143	.0190	-15.6
	12.58	.482	.1122	.022	.135	.0206	-15.7
	14.70	.585	.1569	.020	.145	.0215	-15.6
	16.83	.702	.2144	.012	.180	.0240	-15.6
	17.89	.750	.2441	.010	.175	.0308	-15.6
0.90	-4.28	-.314	.0414	.062	.241	.0169	-15.5
	-2.16	-.209	.0286	.053	.230	.0175	-15.5
	-1.12	-.159	.0242	.051	.229	.0180	-15.5
	-.59	-.136	.0231	.049	.232	.0185	-15.5
	.37	-.093	.0212	.048	.231	.0189	-15.5
	.90	-.067	.0205	.047	.228	.0191	-15.5
	1.98	-.016	.0199	.043	.209	.0191	-15.5
	4.20	.087	.0238	.037	.187	.0198	-15.6
0.90	6.31	0.191	0.0355	0.031	0.189	0.0213	-15.6
	8.38	.301	.0552	.024	.149	.0177	-15.7
	10.51	.408	.0871	.018	.176	.0181	-15.6
	12.63	.514	.1268	.010	.193	.0187	-15.6
1.20	-4.10	-.283	.0459	.076	.337	.0177	-15.1
	-2.04	-.183	.0337	.060	.322	.0187	-15.1
	-1.02	-.136	.0297	.053	.316	.0192	-15.1
	-.50	-.113	.0282	.050	.310	.0193	-15.2
	.48	-.065	.0256	.044	.301	.0196	-15.2
	1.01	-.039	.0263	.040	.298	.0197	-15.2
	2.07	.011	.0268	.033	.287	.0196	-15.2
	4.16	.113	.0323	.018	.255	.0192	-15.3
	6.17	.215	.0448	.019	.213	.0193	-15.4
	8.23	.321	.0648	-.015	.179	.0193	-15.5
	10.30	.425	.0919	-.029	.154	.0191	-15.6
	12.37	.533	.1272	-.046	.107	.0188	-15.7
	14.44	.632	.1685	-.052	.075	.0163	-15.8
1.30	-4.09	-.256	.0471	.067	.323	.0152	-15.1
	-2.04	-.163	.0355	.053	.312	.0159	-15.1
	-1.01	-.119	.0317	.047	.309	.0164	-15.1
	-.49	-.095	.0308	.043	.304	.0165	-15.2
	.44	-.051	.0287	.037	.294	.0166	-15.2
	.96	-.027	.0286	.034	.288	.0167	-15.2
	2.07	.028	.0298	.027	.276	.0166	-15.2
	4.07	.116	.0344	.012	.235	.0164	-15.4
	6.16	.210	.0461	-.001	.205	.0163	-15.4
	8.22	.303	.0644	-.015	.171	.0159	-15.5
	10.27	.397	.0892	-.028	.127	.0158	-15.7
	12.32	.486	.1204	-.041	.079	.0154	-15.8
	14.38	.571	.1577	-.052	.048	.0155	-15.9
	16.44	.653	.2009	-.062	.013	.0144	-16.0
	17.49	.692	.2245	-.066	-.002	.0134	-16.1
1.50	-4.09	-.226	.0434	.057	.319	.0124	-15.0
	-2.04	-.140	.0325	.044	.302	.0126	-15.0
	-1.01	-.098	.0289	.037	.290	.0127	-15.1
	-.50	-.076	.0276	.034	.281	.0128	-15.1
	.50	-.034	.0262	.028	.268	.0128	-15.1
	1.03	-.011	.0262	.025	.266	.0130	-15.1
1.50	2.08	0.033	0.0270	0.018	0.246	0.0128	-15.2
	4.11	.118	.0320	.005	.201	.0125	-15.3
	6.16	.204	.0432	-.008	.166	.0125	-15.4
	8.21	.287	.0600	-.020	.134	.0124	-15.5
	10.27	.370	.0830	-.031	.098	.0123	-15.6
	12.33	.448	.1109	-.042	.062	.0125	-15.8
	14.38	.525	.1445	-.052	.017	.0124	-15.9
	16.44	.596	.1821	-.059	.018	.0130	-16.0
	17.47	.632	.2035	-.063	.037	.0124	-16.1
1.70	-4.09	-.201	.0402	.049	.307	.0108	-15.0
	-2.04	-.124	.0304	.037	.290	.0106	-15.0
	-1.01	-.087	.0273	.032	.280	.0108	-15.1
	-.50	-.066	.0262	.029	.274	.0109	-15.1
	.50	-.027	.0250	.024	.260	.0110	-15.1
	1.03	-.006	.0251	.021	.255	.0111	-15.2
	2.08	.034	.0257	.015	.240	.0112	-15.2
	4.10	.112	.0305	.003	.196	.0111	-15.3
	6.15	.189	.0407	-.008	.155	.0110	-15.5
	8.20	.264	.0560	-.019	.119	.0108	-15.6
	10.25	.338	.0768	-.028	.092	.0107	-15.7
	12.30	.408	.1021	-.037	.054	.0109	-15.8
	14.35	.477	.1318	-.046	.010	.0109	-15.9
	16.40	.542	.1668	-.052	-.026	.0110	-16.0
	17.43	.576	.1866	-.054	-.035	.0109	-16.1
1.90	-4.07	-.183	.0387	.042	.320	.0096	-15.1
	-2.03	-.112	.0294	.033	.300	.0097	-15.1
	-1.01	-.078	.0266	.028	.286	.0098	-15.2
	-.49	-.059	.0256	.025	.278	.0097	-15.2
	.46	-.024	.0243	.021	.259	.0098	-15.3
	.98	-.005	.0243	.018	.250	.0097	-15.3
	2.07	.031	.0243	.013	.233	.0097	-15.3
	4.08	.101	.0293	.003	.196	.0096	-15.5
	6.12	.170	.0384	-.006	.159	.0095	-15.6
	8.16	.237	.0522	-.016	.116	.0095	-15.7
	10.21	.304	.0707	-.024	.078	.0092	-15.8
	12.26	.367	.0926	-.031	.046	.0024	-15.9
	14.29	.430	.1135	-.037	.004	.0093	-16.0
	16.33	.482	.1513	-.041	-.022	.0096	-16.1
	17.37	.519	.1694	-.043	-.033	.0099	-16.2

(h) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	-0.308	0.0397	0.055	0.269	0.0191	-19.5
	-2.16	-.214	.0303	.052	.266	.0202	-19.5
	-1.12	-.173	.0265	.051	.266	.0207	-19.5
	-.60	-.152	.0251	.051	.268	.0210	-19.5
	.45	-.114	.0231	.051	.276	.0218	-19.5
	.97	-.092	.0225	.051	.272	.0220	-19.5
	1.98	-.049	.0229	.049	.266	.0221	-19.5
	4.10	.040	.0228	.046	.249	.0227	-19.5
	6.22	.131	.0282	.043	.231	.0227	-19.5
	8.32	.233	.0429	.038	.206	.0234	-19.6
	10.43	.338	.0665	.035	.184	.0235	-19.6
	12.49	.432	.0972	.038	.175	.0234	-19.6
	14.60	.538	.1374	.038	.160	.0237	-19.7
	16.72	.647	.1934	.035	.148	.0272	-19.7
	17.77	.694	.2202	.035	.141	.0275	-19.7
0.80	-2.18	-.219	.0327	.057	.297	.0201	-19.3
	-1.13	-.173	.0284	.055	.292	.0203	-19.3
	-.60	-.150	.0267	.053	.291	.0203	-19.3
	.45	-.110	.0245	.053	.291	.0209	-19.3
	.98	-.086	.0238	.052	.289	.0210	-19.3
	2.00	-.040	.0232	.050	.278	.0211	-19.3
	4.15	.059	.0250	.045	.262	.0219	-19.4
	6.28	.159	.0335	.038	.234	.0219	-19.4
	8.40	.273	.0512	.030	.184	.0215	-19.5
	10.47	.372	.0768	.028	.167	.0188	-19.6
	12.59	.479	.1136	.022	.158	.0189	-19.6
	14.71	.581	.1575	.020	.156	.0202	-19.6
	16.83	.699	.2149	.011	.152	.0260	-19.6
	17.90	.745	.2437	.009	.153	.0295	-19.6
0.90	-4.30	-.323	.0467	.068	.305	.0184	-19.2
	-2.18	-.221	.0335	.060	.298	.0195	-19.2
	-1.12	-.172	.0287	.056	.294	.0197	-19.2
	-.60	-.149	.0273	.055	.298	.0201	-19.2
	.45	-.106	.0251	.054	.293	.0207	-19.2
	.94	-.080	.0244	.054	.289	.0207	-19.3
	2.02	-.031	.0240	.050	.279	.0213	-19.3
	4.19	.075	.0267	.042	.236	.0213	-19.4
0.90	6.32	0.190	0.0378	0.032	0.194	0.0210	-19.5
	8.40	.303	.0568	.022	.136	.0163	-19.6
	10.53	.410	.0892	.018	.149	.0170	-19.6
1.20	-4.10	-.295	.0512	.082	.384	.0196	-18.9
	-2.04	-.195	.0389	.067	.380	.0212	-18.9
	-1.01	-.150	.0347	.061	.379	.0218	-18.9
	-.50	-.125	.0330	.057	.372	.0220	-18.9
	.48	-.078	.0313	.051	.367	.0222	-18.9
	1.01	-.053	.0308	.048	.365	.0225	-18.9
	2.06	-.003	.0311	.041	.355	.0225	-18.9
	4.16	.099	.0362	.025	.323	.0223	-19.0
	6.17	.200	.0475	.009	.297	.0221	-19.1
	8.23	.309	.0671	-.008	.249	.0218	-19.2
	10.30	.413	.0939	-.023	.218	.0214	-19.3
	12.36	.520	.1286	-.039	.179	.0209	-19.4
1.30	-4.09	-.267	.0523	.074	.395	.0177	-18.8
	-2.04	-.174	.0405	.060	.387	.0186	-18.8
	-1.01	-.130	.0364	.053	.378	.0190	-18.8
	-.50	-.107	.0349	.050	.375	.0190	-18.8
	.49	-.063	.0331	.044	.370	.0194	-18.9
	1.01	-.040	.0328	.041	.367	.0195	-18.9
	2.07	.008	.0332	.034	.364	.0195	-18.9
	4.16	.104	.0384	.020	.329	.0204	-19.0
	6.17	.196	.0493	.005	.281	.0190	-19.1
	8.23	.292	.0670	-.009	.241	.0184	-19.2
	10.29	.385	.0912	-.022	.198	.0179	-19.4
	12.34	.476	.1219	-.035	.141	.0175	-19.5
	14.40	.559	.1584	-.047	.103	.0171	-19.6
	16.46	.641	.2011	-.057	.070	.0162	-19.7
	17.49	.682	.2248	-.062	.050	.0150	-19.8
1.50	-4.09	-.236	.0484	.063	.372	.0151	-18.8
	-2.04	-.150	.0371	.050	.365	.0155	-18.8
	-1.01	-.109	.0334	.044	.352	.0157	-18.9
	-.50	-.087	.0320	.040	.346	.0153	-18.9
	.50	-.046	.0303	.034	.331	.0153	-18.9
	1.02	-.022	.0300	.031	.330	.0155	-18.9
	2.08	.023	.0307	.024	.302	.0152	-19.0
1.50	4.16	0.111	- - -	0.011	0.263	0.0149	-19.1
	6.16	.193	0.0442	-.002	.227	.0148	-19.3
	8.22	.277	.0608	-.014	.193	.0145	-19.4
	10.27	.361	.0833	-.025	.152	.0142	-19.5
	12.33	.440	.1111	-.037	.111	.0140	-19.6
	14.38	.517	.1445	-.047	.067	.0139	-19.7
	16.44	.587	.1819	-.055	.029	.0145	-19.9
	17.47	.625	.2034	-.059	.010	.0137	-19.9
1.70	-4.08	-.209	.0447	.053	.342	.0124	-18.9
	-2.03	-.131	.0343	.042	.326	.0127	-18.9
	-1.01	-.094	.0310	.036	.316	.0128	-19.0
	-.50	-.073	.0296	.033	.309	.0128	-19.0
	.51	-.034	.0285	- - -	.297	.0126	-19.0
	1.02	-.014	.0283	.025	.293	.0127	-19.0
	2.08	.028	.0287	.019	.279	.0127	-19.1
	4.10	.105	.0331	.007	.234	.0124	-19.2
	6.15	.182	.0429	-.004	.194	.0123	-19.4
	8.20	.257	.0579	-.015	.158	.0120	-19.5
	10.25	.330	.0782	-.024	.136	.0120	-19.5
	12.30	.402	.1031	-.034	.097	.0122	-19.6
	14.35	.470	.1323	-.042	.056	.0122	-19.8
	16.40	.536	.1670	-.048	.028	.0123	-19.9
	17.43	.569	.1864	-.051	.011	.0122	-19.9
1.90	-4.07	-.187	.0423	.046	.343	.0113	-18.9
	-2.03	-.117	.0329	.036	.323	.0114	-19.0
	-1.01	-.083	.0300	.031	.313	.0115	-19.0
	-.49	-.065	.0290	.029	.307	.0115	-19.0
	.50	-.030	.0277	.024	.291	.0115	-19.1
	1.02	-.011	.0274	.021	.286	.0114	-19.1
	2.07	.026	.0278	.017	.265	.0114	-19.2
	4.09	.095	.0320	.007	.229	.0114	-19.3
	6.13	.164	.0406	-.003	.185	.0111	-19.4
	8.17	.232	.0539	-.012	.149	.0109	-19.5
	10.22	.297	.0718	-.020	.126	.0108	-19.6
	12.27	.363	.0942	-.028	.083	.0109	-19.7
	14.31	.423	.1201	-.034	.041	.0108	-19.8
	16.36	.483	.1513	-.036	.018	.0112	-19.9
	17.39	.514	.1695	-.039	.007	.0112	-19.9

NACA

TABLE VIII.- CONCLUDED



(i) Nominal δ, -24°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.316	0.0444	0.099	0.308	0.0206	-23.5
	-2.17	-.228	.0342	.097	.309	.0220	-23.5
	-1.13	-.186	.0304	.096	.308	.0226	-23.5
	-.61	-.165	.0288	.095	.308	.0229	-23.5
	.43	-.124	.0261	.094	.304	.0230	-23.5
	.96	-.103	.0253	.094	.302	.0232	-23.5
	1.97	-.059	.0244	.092	.289	.0230	-23.5
	4.09	.027	.0255	.091	.290	.0246	-23.5
	6.22	.120	.0307	.087	.277	.0251	-23.6
	8.32	.222	.0444	.041	.243	.0249	-23.6
	10.43	.327	.0674	.038	.222	.0247	-23.7
	12.48	.424	.0982	.040	.210	.0241	-23.7
	14.60	.528	.1386	.040	.196	.0243	-23.7
	16.72	.644	.1911	.036	.186	.0271	-23.7
	17.78	.693	.2198	.037	.181	.0273	-23.7
0.80	-4.29	-.326	.0487	.066	.334	.0201	-23.3
	-2.19	-.232	.0369	.061	.337	.0217	-23.3
	-1.14	-.186	.0328	.059	.337	.0222	-23.3
	-.61	-.164	.0309	.058	.335	.0223	-23.3
	.44	-.124	.0284	.057	.329	.0226	-23.3
	.96	-.100	.0276	.056	.326	.0228	-23.3
	1.99	-.053	.0267	.054	.317	.0229	-23.3
	4.13	.040	.0279	.050	.307	.0240	-23.4
	6.27	.146	.0363	.043	.281	.0238	-23.4
	8.39	.262	.0524	.033	.216	.0222	-23.6
	10.47	.367	.0783	.029	.192	.0198	-23.6
	12.60	.478	.1151	.023	.169	.0185	-23.7
	14.72	.579	.1579	.020	.163	.0196	-23.7
	16.84	.671	.2054	.017	.153	.0195	-23.7
	17.92	.758	.2470	.006	.137	.0264	-23.7
0.90	-4.31	-.342	.0530	.075	.376	.0206	-23.1
	-2.19	-.236	.0381	.065	.358	.0213	-23.2
	-1.13	-.186	.0332	.062	.354	.0219	-23.2
	-.61	-.163	.0317	.061	.358	.0221	-23.2
	.44	-.119	.0290	.058	.346	.0225	-23.2
	.92	-.096	.0284	.057	.344	.0229	-23.2
	2.00	-.045	.0273	.054	.330	.0230	-23.3

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.90	6.31	0.177	0.0387	0.035	0.213	0.0219	-23.5
	8.39	.292	.0573	.026	.156	.0172	-23.7
	10.52	.406	.0894	.020	.157	.0165	-23.7
	12.65	.514	.1291	.011	.147	.0166	-23.7
1.20	-4.10	-.310	.0576	.089	.485	.0224	-22.7
	-2.04	-.210	.0436	.073	.440	.0235	-22.8
	-1.01	-.162	.0396	.067	.443	.0243	-22.8
	-.52	-.139	.0381	.063	.439	.0246	-22.8
	.48	-.092	.0361	.057	.432	.0252	-22.8
	1.00	-.067	.0355	.053	.430	.0254	-22.8
	2.06	-.017	.0356	.047	.418	.0255	-22.9
	4.16	.085	.0399	.032	.373	.0251	-23.0
	6.17	.189	.0503	.014	.325	.0244	-23.1
	8.23	.297	.0695	-.003	.297	.0241	-23.2
	10.30	.401	.0960	-.018	.266	.0235	-23.3
	12.36	.510	.1301	-.034	.235	.0203	-23.4
	14.44	.610	.1707	-.042	.202	.0198	-23.5
1.30	-4.09	-.276	.0572	.078	.418	.0201	-22.8
	-2.04	-.186	.0456	.064	.421	.0215	-22.8
	-1.01	-.142	.0416	.058	.419	.0221	-22.8
	-.50	-.118	.0398	.055	.413	.0220	-22.8
	.48	-.074	.0379	.049	.410	.0223	-22.9
	1.01	-.051	.0375	.046	.409	.0226	-22.9
	2.06	-.004	.0381	.040	.406	.0227	-22.9
	4.16	.091	.0424	.026	.375	.0224	-23.0
	6.17	.185	.0526	.011	.325	.0220	-23.1
	8.23	.282	.0699	-.004	.287	.0209	-23.2
	10.29	.377	.0938	-.017	.249	.0202	-23.3
	12.34	.467	.1237	-.030	.207	.0198	-23.4
	14.40	.554	.1603	-.042	.166	.0193	-23.6
	16.46	.635	.2022	-.053	.125	.0182	-23.7
	17.49	.675	.2256	-.057	.107	.0171	-23.7
1.50	-4.09	-.247	.0539	.069	.448	.0172	-22.7
	-2.03	-.161	.0423	.056	.440	.0178	-22.7
	-1.01	-.121	.0385	.050	.437	.0180	-22.7
	-.50	-.099	.0369	.047	.432	.0180	-22.7
	.49	-.057	.0351	.041	---	.0182	-22.7

M	α	C_L	C_D	C_m	C_h	C_l	δ
1.50	1.02	-0.034	0.0347	0.037	0.416	0.0183	-22.8
	2.07	.010	.0352	.031	.406	.0182	-22.8
	4.16	.097	.0398	.018	.368	.0179	-22.9
	6.16	.184	.0499	.004	.298	.0174	-23.1
	8.21	.268	.0651	-.008	.264	.0168	-23.2
	10.27	.352	.0864	-.021	.199	.0161	-23.4
	12.32	.438	.1135	-.032	.199	.0159	-23.6
	14.38	.510	.1461	-.043	.112	.0156	-23.7
	16.43	.581	.1830	-.051	.077	.0160	-23.8
	17.46	.618	.2040	-.055	.057	.0153	-23.9
1.70	-4.08	-.217	.0503	.058	.403	.0143	-22.8
	-2.03	-.140	.0392	.046	.382	.0145	-22.9
	-1.01	-.102	.0356	.041	.368	.0146	-22.9
	-.48	-.070	.0342	-----	.361	.0146	-22.9
	.50	-.042	.0326	.032	.345	.0146	-23.0
	1.02	-.021	.0322	.029	.341	.0147	-23.0
	2.07	.020	.0322	.023	.328	.0146	-23.1
	4.15	.099	.0362	.011	.278	.0143	-23.2
	6.15	.175	.0454	-.001	.236	.0140	-23.3
	8.20	.250	.0600	-.011	.207	.0138	-23.4
	10.25	.324	.0798	-.021	.173	.0135	-23.5
	12.30	.396	.1040	-.030	.136	.0136	-23.4
	14.35	.464	.1329	-.039	.096	.0136	-23.8
	16.40	.530	.1671	-.045	.069	.0137	-23.8
	17.43	.564	.1865	-.048	.052	.0135	-23.9
1.90	-4.07	-.193	.0466	.049	.370	.0122	-22.9
	-2.03	-.123	.0368	.039	.347	.0123	-23.0
	-1.01	-.089	.0336	.034	.334	.0124	-23.0
	-.50	-.071	.0323	.032	.327	.0124	-23.1
	.50	-.035	.0308	.027	.313	.0124	-23.1
	1.02	-.016	.0304	.024	.303	.0124	-23.1
	2.06	.020	.0305	.019	.290	.0124	-23.2
	4.14	.090	.0344	.010	.256	.0122	-23.3
	6.13	.158	.0424	0	.219	.0120	-23.4
	8.18	.227	.0597	-.010	.184	.0119	-23.5
	10.22	.298	.0734	-.018	.158	.0117	-23.6
	12.27	.359	.0954	-.026	.118	.0118	-23.7
	14.32	.421	.1216	-.032	.084	.0118	-23.8
	16.37	.481	.1521	-.036	.053	.0122	-23.9
	17.39	.511	.1700	-.038	.043	.0125	-23.9

(j) Nominal δ, -28°

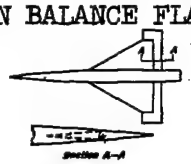
M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.27	-0.327	0.0498	0.065	0.347	0.0234	-27.4
	-2.18	-.239	.0392	.062	.347	.0246	-27.4
	-1.14	-.198	.0351	.061	.349	.0252	-27.4
	-.62	-.177	.0334	.060	.349	.0254	-27.4
	.43	-.135	.0301	.059	.340	.0255	-27.4
	.95	-.113	.0293	.059	.339	.0256	-27.4
	1.98	-.067	.0278	.056	.324	.0250	-27.5
	4.08	.019	.0284	.054	.315	.0259	-27.5
	6.21	.110	.0338	.051	.306	.0270	-27.5
	8.31	.214	.0468	.045	.264	.0263	-27.6
	10.42	.322	.0690	.040	.235	.0257	-27.6
	12.53	.421	.1007	.042	.223	.0250	-27.7
	14.60	.525	.1408	.041	.211	.0250	-27.7
	16.72	.643	.1930	.037	.197	.0273	-27.7
	17.77	.693	.2201	.037	.190	.0272	-27.7
0.80	-4.30	-.336	.0541	.071	.372	.0221	-27.2
	-2.19	-.239	.0414	.066	.372	.0236	-27.2
	-1.14	-.197	.0372	.064	.374	.0244	-27.2
	-.61	-.174	.0353	.063	.371	.0246	-27.2
	.43	-.134	.0325	.062	.366	.0248	-27.2
	.96	-.110	.0315	.061	.363	.0249	-27.2
	1.97	-.064	.0309	.059	.354	.0251	-27.3
	4.18	.030	.0310	.055	.337	.0262	-27.3
	6.26	.135	.0382	.047	.299	.0258	-27.4
	8.39	.255	.0542	.036	.234	.0239	-27.5
	10.47	.365	.0795	.029	.199	.0223	-27.6
	12.59	.472	.1154	.025	.176	.0196	-27.7
	14.72	.575	.1588	.022	.172	.0207	-27.7
	16.86	.705	.2179	.010	.150	.0258	-27.7
	17.92	.759	.2468	.007	.136	.0260	-27.7
0.90	-4.32	-.351	.0584	.079	.421	.0224	-27.0
	-2.20	-.247	.0435	.071	.417	.0235	-27.1
	-1.14	-.200	.0390	.068	.422	.0244	-27.0
	-.62	-.177	.0378	.068	.434	- - -	-27.0
	.44	-.133	.0348	.066	.427	.0253	-27.0
	.91	-.110	.0339	.065	.422	.0256	-27.0
	1.98	-.060	.0322	.061	.403	.0256	-27.1
	4.15	.044	.0336	.054	.371	.0263	-27.2

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.90	6.30	0.163	0.0416	0.041	0.278	0.0247	-27.4
	8.43	.283	.0598	.030	.209	.0196	-27.5
	10.52	.398	.0894	.022	.183	.0179	-27.6
1.20	-4.10	-.322	.0632	.095	.534	.0244	-26.4
	-2.02	-.122	.0477	.083	.544	.0265	-26.5
	-1.01	-.177	.0459	.078	.547	.0273	-26.5
	-.50	-.154	.0441	.072	.545	.0276	-26.5
	.48	-.107	.0418	.064	.529	.0282	-26.5
	.99	-.082	.0411	.060	.522	.0283	-26.5
	2.05	-.032	.0408	.054	.505	.0283	-26.6
	4.16	.073	.0437	.036	.413	.0272	-26.9
	6.17	.182	.0567	.017	.343	.0259	-27.1
	8.24	.290	.0710	0	.302	.0253	-27.2
	10.30	.393	.0974	-.014	.287	.0251	-27.2
	12.37	.501	.1311	-.030	.268	.0245	-27.3
1.30	-4.10	-.281	.0616	.081	.446	.0216	-26.7
	-2.04	-.192	.0499	.068	.446	.0231	-26.7
	-1.01	-.149	.0461	.062	.453	.0236	-26.7
	-.50	-.126	.0444	.059	.445	.0238	-26.7
	.48	-.083	.0425	.053	.443	.0243	-26.7
	1.00	-.060	.0420	.050	.444	.0245	-26.7
	2.06	-.013	.0428	.043	.427	.0246	-26.8
	4.16	.083	.0479	.029	.384	.0245	-26.9
	6.17	.177	.0593	.014	.330	.0233	-27.1
	8.23	.273	.0716	-.001	.304	.0224	-27.1
	10.29	.368	.0952	-.014	.269	.0218	-27.2
	12.35	.458	.1246	-.027	.243	.0215	-27.3
	14.41	.544	.1609	-.038	.210	.0210	-27.4
	16.47	.627	.2028	-.049	.170	.0197	-27.5
	17.50	.666	.2257	-.054	.153	-.0016	-27.6
1.50	-4.09	-.250	.0579	.072	.425	.0188	-26.8
	-2.04	-.187	.0461	.058	.425	.0194	-26.8
	-1.01	-.128	.0433	.053	.434	.0199	-26.7
	-.50	-.106	.0417	.050	.431	.0200	-26.7
	.48	-.065	.0396	.044	.423	.0201	-26.8
	1.01	-.043	.0390	.041	.419	.0203	-26.8
	2.06	-.001	.0396	.035	.419	.0206	-26.8

M	α	C_L	C_D	C_m	C_h	C_l	δ
1.50	4.16	0.087	0.0433	0.022	0.380	0.0204	-26.9
	6.16	.173	.0515	.008	.323	.0198	-27.1
	8.21	.259	.0663	-.005	.272	.0184	-27.2
	10.27	.342	.0876	-.017	.247	.0179	-27.3
	12.32	.424	.1145	-.029	.204	.0176	-27.4
	14.38	.499	.1454	-.039	.155	.0181	-27.6
	16.43	.573	.1828	-.048	.116	.0173	-27.7
	17.46	.609	.2032	-.052	.094	.0167	-27.8
1.70	-4.08	-.227	.0557	.064	.429	.0168	-26.6
	-2.03	-.151	.0448	.053	.463	.0173	-26.6
	-1.01	-.113	.0411	.047	.495	.0173	-26.6
	-.50	-.093	.0396	.044	.450	.0174	-26.7
	.49	-.054	.0375	.038	.436	.0173	-26.7
	1.01	-.034	.0369	.035	.426	.0173	-26.7
	2.06	.009	.0366	.029	.403	.0172	-26.8
	4.15	.087	.0403	.017	.363	.0169	-26.9
	6.15	.164	.0488	.005	.317	.0166	-27.1
	8.20	.240	.0625	-.006	.269	.0161	-27.2
	10.25	.315	.0811	-.017	.217	.0153	-27.4
	12.30	.389	.1048	-.027	.163	.0150	-27.5
	14.35	.459	.1336	-.036	.125	.0150	-27.7
	16.40	.526	.1676	-.042	.098	.0151	-27.8
	17.43	.558	.1868	-.044	.082	.0149	-27.8
1.90	-4.07	-.201	.0540	.054	.438	.0147	-26.7
	-2.03	-.130	.0426	.043	.398	.0149	-26.8
	-1.01	-.095	.0388	.038	.378	.0144	-26.9
	-.50	-.077	.0372	.035	.370	.0143	-26.9
	.49	-.042	.0353	.030	.353	.0143	-27.0
	1.02	-.023	.0347	.028	.340	.0142	-27.0
	2.06	.014	.0343	.022	.321	.0141	-27.1
	4.14	.085	.0373	.012	.281	.0138	-27.2
	6.13	.153	.0451	.003	.249	.0137	-27.3
	8.18	.220	.0578	-.006	.222	.0135	-27.4
	10.22	.285	.0748	-.014	.187	.0132	-27.5
	12.27	.352	.0963	-.022	.147	.0131	-27.6
	14.32	.414	.1213	-.029	.106	.0129	-27.7
	16.37	.474	.1515	-.033	.077	.0133	-27.8
	17.40	.505	.1696	-.034	.068	.0136	-27.8

NACA

TABLE IX.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 20.3-PERCENT-AREA RECTANGULAR HORN BALANCE ON THE RIGHT WING PANEL AND A 13.1-PERCENT-AREA RECTANGULAR HORN BALANCE ON THE LEFT WING PANEL. DATA FOR 20.3-PERCENT-AREA HORN BALANCE FLAP DEFLECTED. $R = 4.4 \times 10^6$



(a) Nominal δ, 2°

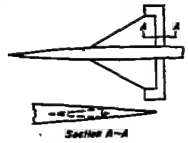
M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.19	-0.184	0.0158	0.006	0.079	-0.0051	1.4
	-2.08	-.087	.0096	-.001	-.047	-.0054	1.5
	-1.03	-.039	.0076	-.004	-.028	-.0052	1.5
	-.52	-.004	.0072	-.005	-.013	-.0050	1.5
	.39	.031	.0074	-.007	.007	-.0056	1.6
	1.13	.056	.0082	-.008	.019	-.0059	1.6
	2.80	.105	.0106	-.012	.041	-.0064	1.6
	4.89	.805	.0186	-.019	.068	-.0070	1.7
	6.39	.302	.0334	-.025	.056	-.0072	1.7
	8.31	.404	.0563	-.030	.046	-.0062	1.6
	10.62	.507	.0880	-.033	.043	-.0067	1.6
	12.74	.615	.1297	-.035	.038	-.0068	1.6
	14.87	.728	.1812	-.036	.015	-.0071	1.6
	16.99	.837	.2401	-.037	0	-.0066	1.6
	18.07	.910	.2789	-.043	-.010	-.0088	1.5
0.80	-4.21	-.198	.0174	.009	-.086	-.0050	1.4
	-2.10	-.091	.0102	.001	-.059	-.0054	1.4
	-1.06	-.036	.0083	-.004	-.036	-.0054	1.5
	-.53	-.014	.0078	-.006	-.018	-.0056	1.5
	.50	.034	.0079	-.009	.009	-.0058	1.6
	1.04	.061	.0087	-.010	.024	-.0058	1.6
	2.11	.114	.0113	-.015	.055	-.0063	1.7
	4.22	.218	.0200	-.024	.066	-.0055	1.7
	6.34	.318	.0357	-.029	.043	-.0049	1.7
	8.46	.422	.0580	-.033	.031	-.0043	1.6
	10.57	.518	- - -	-.036	.019	-.0053	1.6
	12.70	.628	.1393	-.044	.005	-.0052	1.6
	14.85	.740	.1916	-.051	-.011	-.0052	1.5
	16.97	.856	.2552	-.061	-.031	-.0078	1.5
	18.03	.904	.2873	-.064	-.039	-.0073	1.5
0.90	-4.24	.809	.0187	.013	-.104	-.0051	1.4
	-2.11	.098	.0093	.008	-.078	-.0056	1.4
	-1.08	.040	.0069	-.004	-.042	-.0057	1.4
	-.53	.013	.0065	-.007	-.025	-.0058	1.5
	.50	.036	.0067	-.010	.013	-.0060	1.6
	1.06	.087	.0077	-.018	.031	-.0062	1.6
	2.13	.127	.0109	-.019	.059	-.0058	1.7
	4.26	.236	.0217	-.029	.064	-.0065	1.7
0.90	6.38	0.341	0.0398	-0.036	0.087	-0.0061	1.6
	8.51	.448	.0680	-.042	.005	-.0052	1.6
	10.65	.559	.1047	-.050	.003	-.0061	1.5
1.20	-4.12	-.211	.0253	.034	-.055	-.0030	1.4
	-2.05	-.108	.0161	.014	-.063	-.0033	1.3
	-1.01	-.050	.0139	.005	-.057	-.0033	1.4
	-.48	-.023	.0133	.001	-.053	-.0035	1.4
	.47	.026	.0135	-.008	.047	-.0036	1.4
	1.01	.054	.0144	-.013	-.047	-.0040	1.4
	2.05	.108	.0178	-.022	-.041	-.0043	1.4
	4.11	.218	.0273	-.042	-.048	-.0058	1.4
	6.17	.386	.0446	-.061	-.058	-.0042	1.4
	8.24	.439	.0699	-.078	.072	-.0042	1.3
	10.31	.542	.1031	-.095	.100	-.0047	1.2
	12.38	.671	.1492	-.121	.122	-.0049	1.2
1.30	-4.11	-.197	.0263	.031	-.068	-.0031	1.5
	-2.06	-.096	.0172	.014	-.038	-.0030	1.4
	-1.01	-.047	.0148	.006	-.037	-.0029	1.4
	-.48	-.022	.0148	.002	-.035	-.0030	1.4
	.47	.023	.0145	-.006	.034	-.0030	1.4
	1.01	.049	.0153	-.011	.034	-.0030	1.4
	2.05	.098	.0181	-.019	.037	-.0032	1.4
	4.12	.201	.0275	-.036	.049	-.0034	1.4
	6.18	.298	.0439	-.052	.097	-.0035	1.3
	8.24	.395	.0674	-.067	.084	-.0037	1.3
	10.31	.489	.0979	-.082	.111	-.0048	1.2
	12.38	.581	.1348	-.097	.141	-.0048	1.1
	14.43	.668	.1780	-.110	.170	-.0053	1.0
	16.50	.755	.2278	-.122	.195	-.0063	.9
	17.54	.796	.2548	-.128	.215	-.0072	.8
1.50	-4.11	-.178	.0256	.027	.006	-.0028	1.5
	-2.05	-.087	.0171	.012	-.028	-.0027	1.5
	-1.00	-.042	.0150	.005	-.027	-.0026	1.5
	-.48	-.020	.0144	.001	-.026	-.0025	1.5
	.47	.022	.0134	-.006	-.026	-.0025	1.5
	1.00	.046	.0158	-.010	-.030	-.0025	1.4
	2.05	.091	.0178	-.017	-.037	-.0026	1.4
1.50	4.10	0.182	0.0269	-0.032	-0.054	-0.0026	1.4
	6.16	.278	.0416	-.047	-.070	-.0025	1.3
	8.22	.377	.0629	-.060	-.087	-.0023	1.3
	10.28	.480	.0997	-.073	-.108	-.0024	1.2
	12.33	.580	.1521	-.085	-.131	-.0026	1.1
	14.39	.696	.1601	-.095	-.158	-.0026	1.0
	16.45	.673	.2040	-.105	-.180	-.0028	.9
	17.46	.711	.2279	-.109	-.191	-.0033	.9
1.70	-4.10	-.162	.0234	.024	.009	-.0026	1.6
	-2.04	-.082	.0163	.011	-.008	-.0023	1.5
	-1.00	-.039	.0145	.005	-.014	-.0022	1.5
	-.47	-.018	.0143	.001	-.017	-.0021	1.5
	.47	.020	.0142	-.005	-.023	-.0020	1.5
	1.00	.042	.0147	-.008	-.027	-.0019	1.5
	2.04	.083	.0163	-.015	-.037	-.0015	1.4
	4.09	.168	.0253	-.028	-.053	-.0016	1.4
	6.15	.254	.0388	-.040	-.071	-.0014	1.3
	8.20	.338	.0577	-.052	-.086	-.0013	1.3
	10.25	.393	.0813	-.062	-.101	-.0009	1.2
	12.30	.462	.1103	-.072	-.119	-.0007	1.1
	14.35	.534	.1448	-.081	-.139	-.0007	1.1
	16.41	.602	.1832	-.088	-.159	-.0007	1.0
	17.44	.635	.2044	-.091	-.170	-.0009	1.0
1.90	-4.09	-.145	.0286	.020	.015	-.0024	1.6
	-2.05	-.072	.0193	.009	-.001	-.0021	1.5
	-1.00	-.034	.0158	.003	-.008	-.0019	1.5
	-.48	-.016	.0151	.001	-.011	-.0018	1.5
	.47	.017	.0152	-.004	-.018	-.0018	1.5
	.99	.036	.0156	-.007	-.022	-.0016	1.5
	2.04	.074	.0184	-.013	-.031	-.0015	1.5
	4.08	.146	.0282	-.024	-.047	-.0013	1.4
	6.14	.217	.0432	-.034	-.059	-.0013	1.3
	8.18	.283	.0660	-.043	-.076	-.0009	1.3
	10.24	.350	.0736	-.052	-.088	-.0008	1.3
	12.28	.416	.0999	-.060	-.108	-.0004	1.2
	14.33	.478	.1291	-.067	-.118	-.0008	1.2
	16.38	.540	.1624	-.072	-.136	0	1.1
	17.43	.571	.1793	-.074	-.143	.0001	1.1

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.20	-0.203	0.0172	0.014	-0.081	-0.0018	-0.5
	-2.10	-.106	.0107	.007	-.050	-.0024	-.5
	-1.03	-.058	.0084	.004	-.026	-.0026	-.4
	-.49	-.034	.0078	.003	-.013	-.0026	-.4
	.47	.012	.0078	0	.011	-.0029	-.3
	1.00	.036	.0084	0	.024	-.0030	-.3
	2.06	.084	.0100	-.003	.046	-.0033	-.3
	4.18	.184	.0169	-.010	.081	-.0037	-.2
	6.28	.281	.0300	-.016	.059	-.0041	-.2
	8.39	.385	.0518	-.028	.065	-.0038	-.2
	10.49	.486	.0823	-.026	.051	-.0044	-.2
	12.62	.601	.1241	-.027	.053	-.0049	-.2
	14.74	.709	.1732	-.029	.040	-.0052	-.3
	16.89	.814	.2300	-.031	.020	-.0066	-.3
0.80	-4.23	-.216	.0192	.018	-.085	-.0016	-.6
	-2.11	-.110	.0108	.010	-.060	-.0022	-.7
	-1.04	-.059	.0085	.006	-.032	-.0023	-.6
	-.50	-.034	.0079	.004	-.016	-.0024	-.6
	.47	.015	.0078	0	.011	-.0025	-.5
	1.01	.040	.0083	-.001	.027	-.0026	-.5
	2.10	.093	.0103	-.007	.054	-.0028	-.4
	4.21	.195	.0179	-.014	.078	-.0033	-.3
	6.33	.299	.0334	-.021	.061	-.0030	-.4
	8.45	.408	.0590	-.027	.065	-.0034	-.4
	10.56	.500	.0911	-.028	.042	-.0031	-.4
	12.69	.618	.1345	-.036	.016	-.0040	-.5
	14.82	.725	.1867	-.043	.016	-.0040	-.5
	16.95	.834	.2473	-.051	-.003	-.0061	-.6
	18.02	.888	.2814	-.054	-.014	-.0062	-.6
0.90	-4.25	-.229	.0206	.023	-.087	-.0015	-.6
	-2.13	-.121	.0107	.018	-.077	-.0021	-.6
	-1.04	-.063	.0078	.007	-.040	-.0022	-.7
	-.51	-.035	.0071	.005	-.022	-.0024	-.4
	.48	.016	.0070	0	.014	-.0025	-.3
	1.02	.044	.0077	-.002	.033	-.0027	-.3
	2.12	.102	.0099	-.008	.068	-.0027	-.2
	4.24	.212	.0192	-.018	.086	-.0031	-.1
	6.37	.320	.0346	-.026	.053	-.0032	-.2
0.90	8.51	0.431	0.0636	-0.033	0.043	-0.0036	-0.2
	10.64	.538	.0989	-.039	.013	-.0032	-.3
1.20	-4.12	-.221	.0265	.040	-.008	-.0009	-.6
	-2.06	-.112	.0167	.020	-.010	-.0008	-.6
	-1.02	-.059	.0142	.011	-.007	-.0011	-.6
	-.48	-.031	.0135	.007	-.008	-.0012	-.6
	.47	.017	.0133	-.008	.005	-.0014	-.5
	1.00	.046	.0141	-.007	.010	-.0015	-.5
	2.03	.097	.0169	-.016	.016	-.0018	-.5
	4.11	.206	.0259	-.035	.021	-.0024	-.5
	6.18	.313	.0427	-.054	-.003	-.0026	-.6
	8.25	.422	.0675	-.071	-.020	-.0021	-.6
	10.32	.527	.0996	-.087	-.044	-.0028	-.7
	12.39	.633	.1452	-.112	-.078	-.0025	-.8
1.30	-4.12	-.205	.0286	.036	-.001	.0149	-.3
	-2.06	-.102	.0191	.018	-.001	.0033	-.3
	-1.02	-.059	.0164	.010	-.001	.0025	-.3
	-.48	-.029	.0158	.006	-.001	.0019	-.3
	.43	.016	.0153	.002	-.001	.0026	-.3
	1.00	.042	.0168	-.005	-.001	.0068	-.3
	2.05	.091	.0189	-.014	-.001	.0096	-.3
	4.12	.191	.0278	-.031	-.001	-.0043	-.4
	6.18	.290	.0434	-.047	-.001	-.0228	-.4
	8.25	.387	.0684	-.062	-.001	-.0396	-.5
	10.32	.481	.0991	-.077	-.002	-.0637	-.6
	12.39	.578	.1328	-.090	-.002	-.0216	-.7
	14.46	.659	.1755	-.104	-.005	-.1212	-.8
	16.52	.746	.2249	-.116	-.004	-.1473	-.9
1.50	-4.11	-.186	.0264	.031	-.001	.0296	-.5
	-2.05	-.092	.0174	.016	-.001	.0059	-.5
	-1.01	-.047	.0150	.005	-.001	.0035	-.5
	-.48	-.021	.0144	.004	---	.0018	-.5
	.47	.016	.0143	-.002	-.001	.0006	-.5
	1.00	.040	.0150	-.005	-.001	.0005	-.5
	2.05	.086	.0173	-.014	-.001	-.0053	-.6
	4.11	.177	.0258	-.029	-.001	-.0201	-.6
	6.17	.266	.0405	-.043	-.001	-.0378	-.7
1.50	8.23	0.358	0.0611	-0.056	-0.001	-0.0555	-0.7
	10.29	.454	.0876	-.068	-.000	-.0732	-.8
	12.35	.524	.1199	-.080	-.000	-.0963	-.9
	14.41	.592	.1577	-.091	-.000	-.1193	-1.0
	16.47	.661	.2018	-.101	-.001	-.1423	-1.1
	17.50	.706	.2253	-.109	-.002	-.1547	-1.1
1.70	-4.10	-.167	.0253	.027	.034	-.0018	-.6
	-2.05	-.084	.0169	.014	.016	-.0000	-.7
	-1.00	-.043	.0148	.006	.007	-.0007	-.7
	-.48	-.022	.0142	.004	.004	-.0004	-.7
	.47	.019	.0141	-.002	-.001	-.0004	-.8
	1.00	.037	.0146	-.004	-.004	-.0004	-.8
	2.04	.077	.0169	-.012	-.011	-.0003	-.8
	4.10	.159	.0244	-.025	-.028	-.0001	-.9
	6.16	.240	.0360	-.037	-.045	.0008	-.9
	8.21	.319	.0563	-.048	-.060	.0003	-1.0
	10.26	.389	.0801	-.059	-.073	-.0005	-1.0
	12.32	.461	.1091	-.069	-.093	-.0000	-1.1
	14.37	.528	.1421	-.077	-.112	-.0007	-1.2
	16.43	.597	.1809	-.084	-.129	-.0005	-1.2
	17.46	.630	.2021	-.087	-.139	-.0001	-1.2
1.90	-4.10	-.150	.0283	.022	.035	-.0009	-.6
	-2.04	-.076	.0187	.011	.018	-.0006	-.5
	-.99	-.039	.0168	.006	.010	-.0004	-.5
	-.47	-.018	.0163	.004	.006	-.0003	-.5
	.47	.018	.0163	-.002	.000	-.0002	-.6
	1.00	.032	.0165	-.004	-.003	-.0004	-.6
	2.04	.070	.0183	-.010	-.010	-.0008	-.6
	4.09	.143	.0234	-.021	-.026	.0008	-.6
	6.13	.214	.0353	-.031	-.041	.0006	-.7
	8.18	.283	.0518	-.040	-.055	.0006	-.8
	10.23	.348	.0733	-.049	-.068	.0006	-.8
	12.30	.411	.0966	-.058	-.082	.0010	-.8
	14.36	.479	.1290	-.064	-.097	.0011	-.9
	16.41	.535	.1634	-.069	-.112	.0012	-1.0
	17.44	.563	.1822	-.070	-.119	.0013	-1.0

NACA

TABLE IX.- CONTINUED



(c) Nominal δ, -2°

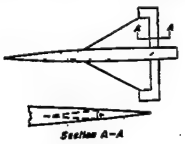
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.21	-.2226	0.0171	0.083	-0.068	0.0032	-2.3	0.90	8.48	0.402	0.0594	-0.022	0.057	0.0024	-2.0	1.50	6.17	0.258	0.0382	-0.039	-0.004	0.0014	-2.2
	-2.11	-.127	.0110	.018	-.046	.0024	-2.2		10.62	.509	.0952	-.031	.038	.0019	-2.0		8.23	.346	.0297	-.033	-.024	.0014	-2.2
	-1.05	-.073	.0083	.013	-.027	.0022	-2.2										10.29	.427	.0356	-.036	-.042	.0015	-2.3
	-.52	-.055	.0076	.012	-.016	.0022	-2.2	1.20	-4.12	-.234	.0863	.048	.049	.0029	-2.0		12.35	.505	.1173	-.077	-.063	.0016	-2.4
	.45	-.009	.0074	.010	.009	.0021	-2.1		-2.05	-.124	.0178	.028	.044	.0022	-2.0		14.41	.583	.1543	-.088	-.085	.0015	-2.5
	1.03	.015	.0076	.009	.021	.0021	-2.1		-1.02	-.070	.0147	.018	.050	.0020	-2.0		16.47	.661	.1977	-.098	-.108	.0009	—
	2.09	.084	.0091	.006	.044	.0016	-2.1		-.49	-.042	.0139	.013	.050	.0016	-2.0		17.50	.697	.2211	-.102	-.121	.0001	-2.6
	4.16	.163	.0151	-.001	.082	.0011	-2.0		.52	.009	.0136	.004	.058	.0016	-2.0								
	6.27	.260	.0281	-.007	.080	.0008	-2.0		1.00	.055	.0141	0	.061	.0014	-1.9	1.70	-4.10	-.173	.0260	.031	.060	.0005	-1.9
	8.39	.363	.0490	-.014	.072	.0009	-2.0		2.03	.088	.0162	-.010	.066	.0012	-1.9		-2.05	-.090	.0173	.018	.044	.0008	-2.0
	10.48	.467	.0787	-.018	.071	.0008	-2.0		4.12	.195	.0249	-.029	.060	.0006	-1.9		-1.01	-.049	.0150	.011	.035	.0009	-2.0
	12.62	.577	.1194	-.020	.062	.0002	-2.0		6.18	.304	.0410	-.048	.048	.0005	-2.0		-.48	-.028	.0143	.008	.030	.0010	-2.0
	14.75	.690	.1689	-.023	.058	-.0007	-2.1		8.25	.418	.0654	-.066	.028	.0008	-2.1		.52	.011	.0141	.001	.022	.0011	-2.1
	16.89	.824	.2335	-.030	.032	.0034	-2.1		10.32	.516	.0987	-.081	.009	.0011	-2.1		1.07	.031	.0145	-.002	.020	.0011	-2.1
	17.95	.875	.2655	-.030	.025	.0035	-2.1		12.39	.637	.1414	-.104	-.021	.0011	-2.2		2.04	.072	.0163	-.005	.012	.0013	-2.1
																	4.10	.154	.0233	-.022	-.004	.0016	-2.2
0.80	-4.24	-.238	.0215	.029	-.067	.0033	-2.3	1.30	-4.12	-.209	.0294	.041	.055	.0015	-2.0		6.15	.233	.0366	-.034	-.022	.0018	-2.2
	-2.13	-.135	.0121	.020	-.038	.0028	-2.3		-2.05	-.110	.0196	.023	.046	.0013	-2.0		8.21	.309	.0548	-.046	-.038	.0020	-2.3
	-1.07	-.083	.0092	.016	-.032	.0025	-2.2		-1.03	-.061	.0168	.015	.043	.0013	-2.0		10.26	.383	.0783	-.057	-.052	.0023	-2.3
	-.53	-.058	.0083	.014	-.018	.0024	-2.2		-.49	-.036	.0160	.011	.041	.0012	-2.0		12.31	.455	.1066	-.067	-.069	.0025	-2.4
	.50	-.010	.0078	.012	.013	.0024	-2.1		.52	.010	.0156	.003	.043	.0013	-2.0		14.37	.522	.1393	-.075	-.086	.0026	-2.5
	1.04	.016	.0082	.010	.038	.0023	-2.1		1.00	.034	.0161	-.001	.045	.0012	-2.0		16.43	.590	.1771	-.082	-.103	.0022	-2.5
	2.07	.069	.0096	.006	.056	.0019	-2.0		2.03	.082	.0182	-.009	.046	.0012	-2.0		17.46	.624	.1988	-.084	-.114	.0016	-2.6
	4.19	.174	.0164	-.004	.091	.0013	-1.9		4.12	.180	.0264	-.024	.035	.0011	-2.0								
	6.31	.278	.0309	-.011	.074	.0018	-2.0		6.19	.275	.0411	-.042	.018	.0010	-2.1	1.90	-4.10	-.156	.0250	.025	.056	.0016	-2.0
	8.43	.382	.0534	-.017	.063	.0024	-2.0		8.26	.371	.0634	-.057	-.000	.0009	-2.2		-2.04	-.080	.0185	.014	.041	.0018	-2.0
	10.55	.481	.0877	-.020	.055	.0013	-2.0		10.32	.461	.0916	-.070	-.031	.0007	-2.3		-1.01	-.043	.0132	.009	.031	.0015	-2.0
	12.68	.592	.1295	-.029	.047	.0008	-2.0		12.39	.549	.1265	-.084	-.055	.0005	-2.4		-.49	-.025	.0147	.006	.027	.0013	-2.1
	16.94	.815	.2410	-.044	.018	.0004	-2.1		14.46	.635	.1678	-.097	-.063	.0001	-2.5		.48	.010	.0143	.001	.020	.0016	-2.1
	18.01	.868	.2744	-.047	—	-.0010	—		16.53	.719	.2153	-.109	-.109	.0004	-2.5		.99	.028	.0147	-.002	.016	.0016	-2.1
									17.56	.758	.2406	-.114	-.123	.0004	-2.6		2.04	.065	.0162	-.008	.009	.0018	-2.1
0.90	-4.26	-.252	.0237	.034	-.064	.0031	-2.3										4.09	.138	.0243	-.019	-.006	.0020	-2.2
	-2.15	-.146	.0122	.020	-.036	.0033	-2.4	1.50	-4.11	-.198	.0276	.036	.058	.0008	-1.9		6.14	.206	.0345	-.029	-.022	.0024	-2.2
	-1.08	-.090	.0089	.020	-.041	.0027	-2.3		-2.05	-.101	.0183	.020	.044	.0008	-2.0		8.20	.275	.0507	-.038	-.037	.0026	-2.3
	-.53	-.068	.0076	.017	-.021	.0026	-2.2		-1.01	-.054	.0155	.018	.037	.0010	-2.0		10.25	.342	.0717	-.047	-.050	.0028	-2.3
	.49	.011	.0073	.013	.019	.0028	-2.1		-.48	-.031	.0147	.009	.034	.0010	-2.0		12.30	.404	.0965	-.055	-.064	.0033	-2.4
	1.03	.018	.0076	.011	.037	.0027	-2.1		.52	.012	.0143	.001	.031	.0011	-2.0		14.35	.467	.1263	-.063	-.078	.0033	-2.4
	2.10	.076	.0093	.004	.069	.0023	-2.0		1.00	.033	.0150	-.002	.031	.0012	-2.0		16.41	.529	.1608	-.068	-.092	.0034	-2.5
	4.22	.189	.0178	-.008	.107	.0018	-1.9		2.03	.080	.0171	-.010	.026	.0012	-2.1		17.44	.559	.1802	-.068	-.099	.0037	-2.5
	6.35	.297	.0342	-.016	.072	.0018	-2.0		4.11	.170	.0252	-.023	.011	.0013	-2.1								

(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.23	-.247	0.0216	0.031	-0.061	0.0067	-4.3	0.90	6.34	0.273	0.0315	-0.004	0.101	0.0062	-3.9	1.50	4.11	0.164	0.0249	-0.021	0.037	0.0035	-4.0
	-2.13	-.150	.0131	.025	-.050	.0061	-4.3		8.47	.379	.0567	-.011	.115	.0070	-3.8		6.17	.253	.0385	-.035	.020	.0036	-4.1
	-1.07	-.101	.0100	.021	-.026	.0057	-4.2		10.60	.485	.0906	-.019	.117	.0065	-3.8		8.23	.339	.0584	-.049	.003	.0034	-4.1
	-.54	-.077	.0090	.020	-.012	.0056	-4.2										10.28	.420	.0840	-.062	-.014	.0034	-4.2
	.42	-.033	.0082	.018	.009	.0054	-4.1	1.20	-4.12	-.249	.0300	.055	.097	.0060	-3.8		12.34	.500	.1152	-.073	-.037	.0034	-4.3
	.95	-.009	.0081	.017	.019	.0052	-4.1		-2.05	-.134	.0190	.035	.095	.0051	-3.8		14.41	.578	.1521	-.084	-.056	.0033	-4.4
	2.07	.041	.0090	.014	.043	.0047	-4.1		-1.02	-.080	.0158	.025	.106	.0048	-3.8		16.47	.653	.1946	-.093	-.078	.0027	-4.4
	4.15	.140	.0138	.007	.084	.0046	-4.0		-.50	-.054	.0147	.020	.106	.0046	-3.8		17.50	.690	.2178	-.097	-.091	.0018	-4.5
	6.25	.238	.0257	.001	.093	.0043	-4.0		.52	-.001	.0142	.011	.111	.0043	-3.8								
	8.36	.341	.0433	-.006	.080	.0047	-4.0		1.05	.026	.0147	.006	.113	.0041	-3.8	1.70	-4.10	-.178	.0271	.034	.082	.0017	-3.9
	10.47	.446	.0742	-.010	.065	.0035	-4.0		2.05	.078	.0164	-.003	.116	.0037	-3.8		-2.05	-.095	.0180	.021	.067	.0020	-3.9
	12.59	.555	.1131	-.012	.079	.0028	-4.0		4.12	.186	.0245	-.022	.109	.0033	-3.8		-1.01	-.054	.0155	.014	.059	.0022	-3.9
	14.73	.669	.1619	-.015	.068	.0019	-4.0		6.18	.294	.0400	-.041	.098	.0032	-3.8		-.48	-.033	.0148	.011	.053	.0022	-4.0
	16.85	.796	.2231	-.022	.055	.0054	-4.0		8.25	.402	.0639	-.060	.072	.0034	-3.9		.52	.007	.0145	.004	.044	.0023	-4.0
	17.92	.852	.2563	-.023	.047	.0057	-4.1		10.32	.507	.0951	-.073	.056	.0034	-4.0		.99	.027	.0148	.001	.041	.0024	-4.0
									12.40	.628	.1390	-.098	.030	.0038	-4.0		2.04	.068	.0164	-.006	.033	.0026	-4.0
0.80	-2.14	-.158	.0137	.029	-.055	.0069	-4.3										4.10	.149	.0235	-.019	.013	.0029	-4.1
	-4.26	-.238	.0241	.037	-.047	.0068	-4.3	1.30	-4.12	-.222	.0314	.047	.098	.0037	-3.8		6.15	.228	.0359	-.031	-.002	.0032	-4.2
	-1.09	-.107	.0104	.026	-.031	.0068	-4.2		-2.06	-.121	.0211	.029	.090	.0035	-3.8		8.21	.304	.0536	-.042	-.018	.0033	-4.2
	-.55	-.081	.0092	.024	-.015	.0067	-4.2		-1.03	-.070	.0180	.020	.088	.0033	-3.9		10.26	.377	.0767	-.053	-.034	.0037	-4.3
	.47	-.035	.0082	.021	.010	.0064	-4.1		-.50	-.046	.0170	.016	.085	.0033	-3.9		12.31	.449	.1044	-.064	-.051	.0038	-4.3
	1.01	-.008	.0081	.019	.027	.0061	-4.1		.51	.003	.0164	.008	.085	.0033	-3.9		14.37	.518	.1371	-.072	-.067	.0040	-4.4
	2.09	.046	.0094	.014	.052	.0060	-4.0		1.05	.026	.0169	.004	.087	.0033	-3.9		16.43	.586	.1750	-.079	-.082	.0037	-4.4
	4.17	.150	.0150	.006	.093	.0056	-3.9		2.05	.076	.0188	-.004	.085	.0033	-3.9		17.46	.620	.1963	-.081	-.093	.0034	-4.5
	6.29	.255	.0284	-.002	.093	.0051	-3.9		4.12	.175	.0266	-.021	.074	.0032	-3.9								
	8.41	.360	.0521	-.008	.073	.0068	-4.0		6.19	.275	.0414	-.038	.057	.0031	-4.0	1.90	-4.10	-.198	.0257	.028	.073	.0028	-3.9
	10.53	.460	.0832	-.012	.073	.0051	-4.0		8.26	.371	.0634	-.053	.036	.0031	-4.0		-2.04	-.085	.0177	.017	.057	.0029	-4.0
	12.66	.574	.1249	-.021	.070	.0044	-4.0		10.32	.463	.0920	-.068	.015	.0028	-4.1		-1.00	-.048	.0155	.011	.049	.0033	-4.0
	14.79	.690	.1759	-.028	.056	.0044	-4.0		12.39	.554	.1271	-.080	-.007	.0025	-4.2		-.48	-.029	.0150	.008	.044	.0033	-4.0
	16.92	.797	.2348	-.035	.043	.0032	-4.0		14.46	.643	.1692	-.093	-.035	.0020	-4.3		.51	.006	.0147	.003	.035	.0028	-4.0
	17.98	.846	.2663	-.037	.031	.0016	-4.1		16.53	.728	.2172	-.105	-.058	.0013	-4.4		.99	.024	.0149	0	.032	.0029	-4.0
									17.56	.771	.2437	-.111	-.074	-.0008	-4.4		2.04	.061	.0163	-.005	.023	.0030	-4.1
0.90	-4.89	-.272	.0260	.044	-.039	.0067	-4.3										4.09	.133	.0227	-.016	.005	.0030	-4.1
	-2.16	-.170	.0139	.037	-.071	.0077	-4.4	1.50	-4.11	-.197	.0268	.039	.088	.0027	-3.8		6.15	.204	.0339	-.026	-.009	.0032	-4.2
	-1.10	-.115	.0103	.032	-.035	.0075	-4.3		-2.05	-.106	.0191	.024	.074	.0027	-3.9		8.19	.271	.0497	-.036	-.023	.0033	-4.2
	-.57	-.086	.0090	.029	-.006	.0074	-4.2		-1.01	-.059	.0162	.016	.067	.0031	-3.9		10.25	.336	.0701	-.044	-.038	.0035	-4.3
	.45	-.034	.0079	.025	.037	.0074	-4.1		-.49	-.037	.0152	.012	.063	.0032	-3.9		12.30	.402	.0952	-.053	-.052	.0038	-4.3
	.96	-.006	.0078	.022	.051	.0069	-4.0		.52	.006	.0149	.005	.059	.0029	-3.9		14.35	.464	.1245	-.060	-.065	.0040	-4.4
	2.12	.054	.0090	.016	.076	.0065	-3.9		1.00	.029	.0153	.002	.059	.0029	-3.9		16.41	.524	.1584	-.063	-.078	.0040	-4.4
	4.22	.187	.0161	.004	.108	.0064	-3.9		2.05	.074	.0172	-.006	.053	.0035	-4.0		17.44	.555	.1778	-.066	-.083	.0042	-4.4

NACA

TABLE IX.- CONTINUED



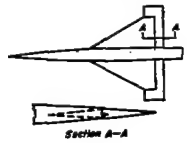
(e) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	0.282	0.0870	0.046	0.026	0.0146	-8.5
	-2.16	-.187	.0163	.040	-.047	.0144	-8.5
	-1.11	-.138	.0126	.037	-.039	.0144	-8.5
	-.58	-.117	.0110	.036	-.029	.0144	-8.5
	.39	-.072	.0090	.034	-.007	.0142	-8.5
	.90	-.048	.0086	.033	.006	.0136	-8.4
	2.03	.007	.0088	.030	.025	.0130	-8.4
	4.18	.106	.0127	.023	.063	.0126	-8.3
	6.23	.204	.0225	.017	.082	.0124	-8.3
	8.34	.308	.0393	.010	.085	.0132	-8.3
	10.45	.414	.0702	.006	.088	.0121	-8.3
	12.56	.523	.1079	.003	.092	.0109	-8.3
	14.69	.639	.1554	.001	.090	.0100	-8.3
	16.83	.777	.2187	-.007	.084	.0136	-8.3
	17.90	.825	.2486	-.007	.079	.0131	-8.3
0.80	-4.28	-.269	.0302	.052	.002	.0135	-8.4
	-2.17	-.190	.0179	.044	-.030	.0141	-8.5
	-1.11	-.142	.0144	.042	-.025	.0147	-8.5
	-.59	-.119	.0124	.040	-.011	.0150	-8.5
	.48	-.078	.0108	.037	.018	.0147	-8.4
	.97	-.046	.0100	.036	.030	.0142	-8.4
	2.05	.012	.0105	.031	.048	.0135	-8.3
	4.21	.120	.0147	.022	.083	.0133	-8.2
	6.27	.223	.0264	.015	.097	.0136	-8.2
	8.40	.331	.0488	.008	.089	.0147	-8.2
	10.51	.429	.0791	.005	.094	.0125	-8.2
	12.64	.544	.1205	-.004	.101	.0120	-8.2
	14.78	.660	.1695	-.011	.101	.0112	-8.2
	16.90	.764	.2208	-.017	.100	.0111	-8.2
	17.96	.808	.2960	-.018	.095	.0113	-8.2
0.90	-4.31	-.309	.0323	.061	.040	.0130	-8.3
	-2.18	-.201	.0177	.052	- - -	.0138	-8.5
	-1.11	-.148	.0129	.047	.013	.0141	-8.4
	-.59	-.121	.0121	.045	.026	.0150	-8.4
	.38	-.069	.0088	.040	.031	.0141	-8.3
	.93	-.039	.0084	.038	.038	.0139	-8.2
	2.08	.085	.0094	.031	.110	.0134	-8.2
	4.24	.142	.0164	.018	.119	.0136	-8.1
	6.33	.258	.0326	.010	.192	.0132	-7.9
0.90	8.46	0.367	0.0579	0	0.203	0.0137	-7.9
1.20	-4.12	-.266	.0351	.067	.172	.0124	-7.9
	-2.05	-.197	.0229	.047	.180	.0119	-7.9
	-1.02	-.104	.0190	.038	.192	.0116	-7.8
	-.51	-.076	.0174	.033	.196	.0077	-7.8
	.50	-.025	.0161	.024	.197	.0106	-7.8
	1.03	.004	.0162	.020	.197	.0104	-7.8
	2.10	.060	.0175	.010	.195	.0098	-7.8
	4.12	.166	.0247	-.010	.188	.0092	-7.8
	6.18	.273	.0395	-.029	.178	.0091	-7.9
	8.25	.383	.0626	-.047	.152	.0088	-8.0
	10.31	.491	.0932	-.064	.127	.0084	-8.0
	12.39	.610	.1353	-.086	.103	.0087	-8.1
1.30	-4.12	-.239	.0357	.057	.177	.0087	-7.9
	-2.06	-.138	.0244	.039	.172	.0086	-7.9
	-1.02	-.086	.0207	.030	.173	.0085	-7.9
	-.50	-.062	.0194	.026	.171	.0083	-7.9
	.46	-.014	.0182	.018	.168	.0080	-7.9
	1.05	.014	.0184	.014	.166	.0081	-7.9
	2.06	.063	.0196	.006	.158	.0079	-7.9
	4.12	.162	.0270	-.012	.142	.0078	-8.0
	6.19	.260	.0408	-.026	.125	.0078	-8.0
	8.25	.357	.0623	-.043	.103	.0073	-8.1
	10.31	.453	.0908	-.058	.079	.0069	-8.2
	12.38	.544	.1255	-.072	.055	.0065	-8.3
	14.44	.631	.1662	-.084	.030	.0060	-8.4
	16.51	.716	.2135	-.096	.007	.0047	-8.4
	17.55	.758	.2394	-.102	-.007	.0037	-8.5
1.50	-4.11	-.208	.0322	.046	.152	.0064	-7.9
	-2.05	-.117	.0218	.031	.135	.0064	-8.0
	-1.02	-.072	.0186	.023	.130	.0064	-8.0
	-.49	-.049	.0173	.019	.125	.0064	-8.0
	.51	-.005	.0164	.012	.118	.0062	-8.0
	1.04	.019	.0166	.009	.116	.0063	-8.0
	2.05	.064	.0181	.002	.109	.0063	-8.1
	4.11	.154	.0251	-.014	.091	.0062	-8.1
	6.17	.248	.0381	-.028	.070	.0065	-8.2
	8.22	.327	.0574	-.041	.049	.0066	-8.3
1.50	10.28	0.412	0.0828	-0.053	0.029	0.0066	-8.3
	12.34	.491	.1132	-.066	.008	.0066	-8.4
	14.40	.568	.1492	-.076	-.011	.0066	-8.5
	16.46	.645	.1914	-.085	-.031	.0063	-8.6
	17.49	.683	.2147	-.090	-.043	.0057	-8.6
1.70	-4.10	-.187	.0301	.039	.127	.0050	-8.0
	-2.04	-.104	.0205	.026	.110	.0053	-8.1
	-1.01	-.063	.0176	.020	.103	.0054	-8.1
	-.49	-.042	.0167	.016	.098	.0054	-8.1
	.51	-.003	.0159	.010	.089	.0054	-8.1
	1.04	.019	.0161	.006	.085	.0054	-8.2
	2.04	.059	.0174	0	.077	.0056	-8.2
	4.10	.140	.0241	-.013	.054	.0059	-8.3
	6.15	.219	.0360	-.025	.034	.0062	-8.3
	8.20	.295	.0531	-.036	.015	.0064	-8.4
	10.26	.370	.0760	-.047	-.003	.0067	-8.5
	12.31	.441	.1032	-.057	-.022	.0069	-8.5
	14.35	.510	.1353	-.065	-.037	.0072	-8.6
	16.41	.578	.1727	-.072	-.050	.0073	-8.6
	17.44	.611	.1934	-.075	-.059	.0070	-8.7
1.90	-4.09	-.166	.0272	.032	.111	.0043	-8.1
	-2.04	-.092	.0185	.022	.095	.0046	-8.1
	-1.01	-.055	.0160	.016	.087	.0047	-8.2
	-.48	-.037	.0153	.013	.082	.0047	-8.2
	.47	-.001	.0146	.008	.073	.0048	-8.2
	1.03	.017	.0147	.005	.067	.0048	-8.2
	2.03	.054	.0158	0	.057	.0050	-8.3
	4.09	.127	.0220	-.011	.037	.0058	-8.3
	6.14	.203	.0327	-.021	.018	.0062	-8.4
	8.18	.283	.0482	-.030	.001	.0058	-8.5
	10.24	.389	.0684	-.039	-.015	.0061	-8.5
	12.29	.395	.0932	-.047	-.031	.0066	-8.6
	14.34	.497	.1222	-.053	-.045	.0058	-8.6
	16.40	.519	.1559	-.059	-.057	.0072	-8.6
	17.43	.550	.1752	-.061	-.061	.0074	-8.7

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.298	0.0334	0.055	0.043	0.0166	-12.3
	-2.18	-.211	.0225	.052	-.023	.0154	-12.4
	-1.13	-.166	.0184	.050	-.020	.0196	-12.4
	-.60	-.145	.0167	.050	-.015	.0201	-12.4
	.34	-.104	.0145	.047	.001	.0203	-12.4
	.88	-.079	.0130	.047	.007	.0196	-12.3
	1.94	-.029	.0120	.043	.020	.0186	-12.3
	4.15	.074	.0145	.037	.053	.0184	-12.2
	6.25	.172	.0217	.031	.073	.0181	-12.2
	8.32	.273	.0393	.025	.082	.0188	-12.2
	10.44	.379	.0670	.021	.089	.0184	-12.2
	12.55	.487	.1026	.018	.091	.0175	-12.2
	14.67	.596	.1467	.015	.089	.0168	-12.2
	16.82	.731	.2073	.007	.087	.0199	-12.2
	17.87	.783	.2504	.007	.083	.0195	-12.2
0.80	-4.29	-.299	.0348	.058	.083	.0144	-12.1
	-2.18	-.207	.0230	.054	.027	.0172	-12.3
	-1.12	-.160	.0186	.052	.013	.0184	-12.3
	-.60	-.140	.0170	.051	.027	.0187	-12.3
	.45	-.095	.0144	.049	.040	.0188	-12.2
	.94	-.069	.0136	.047	.054	.0183	-12.2
	2.02	-.015	.0132	.042	.070	.0178	-12.2
	4.19	.095	.0160	.033	.100	.0171	-12.1
	6.31	.200	.0269	.026	.117	.0176	-12.0
	8.38	.305	.0467	.018	.118	.0186	-12.0
	10.50	.401	.0752	.016	.129	.0167	-12.0
	12.63	.516	.1150	.009	.139	.0170	-12.0
	14.76	.626	.1633	.004	.154	.0177	-12.0
	16.88	.728	.2169	.001	---	.0150	-11.9
	17.94	.766	.2454	.001	---	.0187	-11.8
0.90	-4.31	-.318	.0389	.069	.112	.0162	-12.0
	-2.20	-.214	.0245	.060	.067	.0166	-12.2
	-1.14	-.168	.0196	.056	.043	.0186	-12.2
	-.61	-.145	.0180	.056	.052	.0192	-12.2
	.36	-.094	.0148	.051	.071	.0185	-12.2
	.89	-.067	.0142	.049	.086	.0187	-12.1
	2.00	-.007	.0138	.042	.107	.0180	-12.1
	4.23	.115	.0185	.031	.148	.0175	-11.9
	6.36	.224	.0320	.022	.174	.0165	-11.9
0.90	8.44	0.325	0.0553	0.016	0.206	0.0164	-11.8
1.20	10.57	.438	.0891	.007	.247	.0162	-11.7
	12.71	.543	.1335	-.005	.254	.0157	-11.6
	-4.12	-.267	.0413	.080	.221	.0171	-11.6
	-2.06	-.180	.0279	.060	.237	.0172	-11.6
	-1.02	-.127	.0237	.051	.253	.0172	-11.5
	-.51	-.100	.0221	.047	.259	.0169	-11.5
	.49	-.050	.0201	.038	.262	.0164	-11.5
	1.02	-.020	.0198	.033	.269	.0160	----
	2.09	.037	.0204	.023	.260	.0151	-11.5
	4.12	.145	.0266	.002	.244	.0141	-11.5
	6.18	.251	.0405	-.016	.233	.0141	-11.6
	8.25	.358	.0627	-.035	.214	.0137	-11.6
	10.32	.471	.0924	-.053	.191	.0130	-11.7
	12.39	.592	.1312	-.075	.166	.0129	-11.8
1.30	-4.12	-.253	.0408	.067	.231	.0129	-11.6
	-2.05	-.154	.0288	.049	.237	.0129	-11.5
	-1.02	-.104	.0248	.041	.241	.0127	-11.5
	-.50	-.079	.0234	.037	.238	.0125	-11.5
	.45	-.032	.0219	.029	.234	.0123	-11.6
	.98	-.006	.0217	.024	.232	.0122	-11.6
	2.10	.047	.0225	.015	.217	.0120	-11.6
	4.13	.144	.0288	-.002	.194	.0117	-11.7
	6.18	.243	.0419	-.019	.178	.0115	-11.8
	8.26	.339	.0624	-.034	.156	.0110	-11.8
	10.32	.436	.0893	-.049	.132	.0106	-11.9
	12.39	.526	.1235	-.063	.108	.0101	-12.0
	14.46	.615	.1636	-.075	.081	.0096	-12.1
	16.53	.701	.2104	-.087	.056	.0082	-12.2
	17.56	.744	.2361	-.092	.043	.0070	-12.2
1.50	-4.11	-.219	.0368	.054	.208	.0095	-11.6
	-2.05	-.126	.0257	.038	.197	.0095	-11.7
	-1.02	-.083	.0228	.031	.192	.0095	-11.7
	-.50	-.061	.0209	.027	.187	.0094	-11.7
	.51	-.018	.0197	.020	.179	.0093	-11.7
	1.03	.006	.0197	.016	.176	.0094	-11.7
	2.09	.058	.0208	.009	.163	.0094	-11.8
	4.11	.149	.0269	-.006	.138	.0093	-11.9
1.50	6.17	0.229	0.0390	-0.021	0.112	0.0093	-12.0
	8.23	.314	.0575	-.034	.089	.0095	-12.0
	10.28	.398	.0822	-.047	.066	.0094	-12.1
	12.34	.476	.1116	-.059	.043	.0095	-12.2
	14.40	.554	.1471	-.069	.022	.0096	-12.3
	16.47	.632	.1886	-.078	.001	.0093	-12.3
	17.50	.668	.2109	-.082	-.008	.0085	-12.4
1.70	-4.10	-.195	.0335	.049	.173	.0075	-11.7
	-2.04	-.113	.0234	.032	.156	.0077	-11.8
	-1.00	-.073	.0204	.025	.150	.0078	-11.8
	-.50	-.052	.0194	.022	.144	.0079	-11.8
	.51	-.012	.0185	.016	.139	.0079	-11.9
	1.03	.009	.0189	.013	.130	.0080	-11.9
	2.09	.050	.0196	.006	.119	.0080	-11.9
	4.10	.129	.0233	-.007	.092	.0081	-12.0
	6.15	.209	.0349	-.020	.065	.0089	-12.1
	8.21	.284	.0530	-.031	.043	.0086	-12.2
	10.26	.359	.0791	-.041	.022	.0090	-12.3
	12.32	.438	.1019	-.051	.000	.0092	-12.3
	14.37	.500	.1333	-.060	-.016	.0095	-12.4
	16.43	.567	.1701	-.066	-.027	.0097	-12.4
	17.46	.601	.1905	-.068	-.036	.0095	-12.5
1.90	-4.09	-.174	.0320	.038	.144	.0066	-11.9
	-2.04	-.100	.0228	.027	.128	.0068	-11.9
	-1.02	-.063	.0201	.021	.120	.0068	-11.9
	-.49	-.045	.0192	.018	.116	.0068	-12.0
	.45	-.009	.0183	.013	.107	.0069	-12.0
	1.04	.009	.0183	.010	.101	.0069	-12.0
	2.08	.046	.0191	.005	.091	.0070	-12.0
	4.09	.117	.0244	-.006	.067	.0071	-12.1
	6.15	.187	.0346	-.016	.040	.0074	-12.2
	8.19	.254	.0492	-.026	.020	.0078	-12.3
	10.24	.320	.0687	-.034	.000	.0080	-12.4
	12.29	.389	.0926	-.042	-.017	.0086	-12.4
	14.34	.448	.1213	-.049	-.032	.0089	-12.5
	16.40	.508	.1540	-.054	-.043	.0094	-12.5
	17.44	.540	.1731	-.056	-.048	.0097	-12.5

TABLE IX.- CONCLUDED

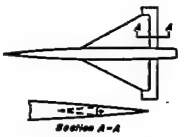


(g) Nominal δ, -24°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.89	-0.333	0.0499	0.070	0.159	0.0209	-24.2
	-2.20	-.244	.0378	.066	.151	.0232	-24.2
	-1.15	-.205	.0336	.067	.151	.0256	-24.2
	-.63	-.188	.0329	.068	.138	.0277	-24.3
	.30	-.171	.0310	.069	.094	.0306	-24.4
	.83	-.133	.0295	.069	.087	.0310	-24.4
	1.88	-.088	.0271	.067	.073	.0316	-24.4
	4.08	.010	.0264	.061	.083	.0318	-24.4
	6.21	.110	.0299	.055	.112	.0309	-24.3
	8.89	.218	.0436	.047	.128	.0305	-24.3
	10.35	.280	.0664	.044	.143	.0300	-24.3
	12.47	.424	.0988	.043	.151	.0293	-24.2
	14.55	.536	.1410	.040	.154	.0280	-24.2
	16.69	.668	.1985	.033	.150	.0269	-24.2
	17.75	.721	.2273	.031	.147	.0316	-24.3
0.80	-4.31	-.337	.0530	.076	.199	.0201	-24.0
	-2.21	-.247	.0396	.072	.192	.0231	-24.1
	-1.16	-.204	.0353	.071	.193	.0251	-24.1
	-.63	-.183	.0336	.071	.188	.0263	-24.1
	.41	-.149	.0308	.071	.156	.0266	-24.1
	.94	-.126	.0295	.070	.147	.0290	-24.2
	1.95	-.076	.0279	.067	.135	.0297	-24.2
	4.11	.027	.0270	.060	.127	.0307	-24.2
	6.27	.141	.0339	.049	.140	.0290	-24.2
	8.40	.258	.0519	.038	.150	.0281	-24.2
	10.47	.360	.0767	.033	.150	.0239	-24.2
	12.60	.479	.1146	.023	.145	.0229	-24.2
	14.74	.591	.1606	.017	.133	.0233	-24.2
	16.87	.696	.2141	.012	.160	.0189	-24.1
	17.92	.745	.2433	.010	.151	.0229	-24.2
0.90	-4.33	-.356	.0607	.088	.268	.0222	-23.8
	-2.22	-.262	.0450	.083	.257	.0245	-23.8
	-1.17	-.216	.0398	.081	.251	.0269	-23.9
	.42	-.193	.0376	.079	.244	.0279	-23.9
	.32	-.150	.0345	.077	.233	.0286	-23.9
	.84	-.124	.0318	.074	.227	.0287	-23.9
	1.98	-.070	.0296	.069	.215	.0293	-24.0
	4.15	.045	.0295	.058	.170	.0303	-24.1
0.90	6.32	0.166	0.0388	0.046	0.174	0.0275	-24.1
	8.47	.289	.0593	.032	.174	.0234	-24.1
	10.55	.403	.0903	.021	.187	.0216	-24.0
1.20	-4.12	-.334	.0646	.105	.348	.0269	-23.4
	-2.06	-.231	.0500	.089	.333	.0298	-23.4
	-1.03	-.185	.0450	.082	.324	.0311	-23.3
	-.51	-.159	.0427	.079	.317	.0315	-23.3
	.52	-.118	.0394	.070	.312	.0321	-23.3
	1.03	-.085	.0384	.066	.376	.0322	-23.3
	2.09	-.027	.0366	.055	.367	.0311	-23.3
	4.16	.098	.0388	.031	.322	.0286	-23.5
	6.18	.203	.0490	.010	.299	.0275	-23.6
	8.25	.309	.0685	-.007	.295	.0275	-23.6
	10.32	.417	.0967	-.023	.297	.0268	-23.6
	12.39	.540	.1344	-.046	.267	.0257	-23.7
1.30	-4.13	-.289	.0612	.088	.308	.0292	-23.5
	-2.05	-.196	.0482	.073	.325	.0312	-23.4
	-1.02	-.151	.0436	.067	.137	.0320	-23.4
	-.50	-.125	.0418	.063	.335	.0319	-23.4
	.42	-.088	.0387	.056	.341	.0325	-23.4
	.93	-.056	.0379	.051	.342	.0323	-23.4
	2.06	0	.0358	.040	.308	.0306	-23.5
	4.18	.103	.0390	.021	.254	.0291	-23.7
	6.18	.204	.0495	.004	.231	.0285	-23.8
	8.26	.297	.0682	-.011	.230	.0281	-23.8
	10.33	.396	.0940	-.029	.213	.0270	-23.8
	12.39	.487	.1256	-.040	.186	.0260	-23.9
	14.46	.573	.1630	-.051	.159	.0266	-24.0
	16.53	.665	.2088	-.065	.131	.0230	-24.1
	17.57	.706	.2335	-.070	.125	.0219	-24.1
1.50	-4.11	-.248	.0535	.071	.275	.0185	-23.6
	-2.03	-.161	.0412	.057	.272	.0191	-23.6
	-1.02	-.117	.0370	.050	.274	.0195	-23.6
	-.51	-.096	.0353	.046	.276	.0196	-23.6
	.48	-.055	.0330	.040	.273	.0196	-23.6
	1.01	-.031	.0324	.036	.270	.0197	-23.6
	2.07	.018	.0316	.027	.238	.0191	-23.7
1.50	4.16	0.109	0.0357	0.012	0.191	0.0190	-23.9
	6.17	.197	.0459	-.003	.164	.0189	-24.0
	8.23	.280	.0630	-.015	.159	.0191	-24.0
	10.29	.367	.0863	-.028	.140	.0187	-24.1
	12.35	.450	.1058	-.040	.113	.0185	-24.1
	14.41	.527	.1184	-.052	.080	.0183	-24.3
	16.47	.603	.1880	-.061	.057	.0180	-24.3
	17.50	.641	.2102	-.065	.049	.0174	-24.4
1.70	-4.10	-.220	.0488	.060	.246	.0152	-23.7
	-2.05	-.140	.0373	.047	.232	.0156	-23.7
	-1.08	-.100	.0335	.041	.227	.0158	-23.7
	-.50	-.079	.0320	.037	.224	.0160	-23.7
	.49	-.042	.0304	.032	.215	.0160	-23.8
	1.02	-.020	.0298	.028	.210	.0160	-23.8
	2.07	.023	.0299	.022	.197	.0161	-23.8
	4.10	.103	.0338	.008	.153	.0163	-24.0
	6.15	.182	.0433	-.004	.114	.0169	-24.1
	8.21	.257	.0584	-.015	.099	.0166	-24.2
	10.26	.331	.0794	-.026	.090	.0168	-24.2
	12.32	.406	.1046	-.036	.056	.0169	-24.3
	14.37	.476	.1350	-.046	.023	.0169	-24.3
	16.43	.544	.1707	-.053	.006	.0172	-24.3
	17.45	.577	.1898	-.061	-.010	.0171	-24.4
1.90	-4.10	-.195	.0458	.050	.223	.0168	-23.8
	-2.05	-.123	.0352	.040	.203	.0171	-23.8
	-1.02	-.087	.0319	.034	.194	.0171	-23.9
	-.51	-.068	.0307	.031	.189	.0172	-23.9
	.44	-.034	.0289	.026	.179	.0171	-23.9
	.96	-.014	.0281	.023	.171	.0172	-23.9
	2.07	.023	.0282	.018	.154	.0173	-24.0
	4.10	.095	.0323	.007	.123	.0175	-24.1
	6.15	.165	.0407	-.004	.085	.0177	-24.3
	8.19	.231	.0541	-.013	.063	.0181	-24.3
	10.25	.296	.0721	-.022	.044	.0184	-24.4
	12.30	.364	.0954	-.030	.019	.0188	-24.5
	14.35	.427	.1223	-.037	-.008	.0190	-24.6
	16.41	.485	.1541	-.041	-.026	.0197	-24.7
	17.44	.518	.1722	-.043	-.031	.0202	-24.7

NACA

TABLE X.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 20.3-PERCENT-AREA RECTANGULAR HORN BALANCE ON THE RIGHT WING PANEL AND A 13.1-PERCENT-AREA RECTANGULAR HORN BALANCE ON THE LEFT WING PANEL. DATA FOR 13.1-PERCENT-AREA HORN BALANCE FLAP DEFLECTED. $R = 4.4 \times 10^6$



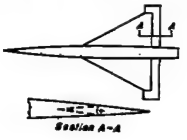
(a) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.19	-0.183	0.0157	0.005	-0.013	0.0028	2.2
	-2.13	-.128	.0116	-.005	-.017	.0022	2.2
	-1.00	-.097	.0080	-.004	-.016	.0021	2.2
	-.47	-.073	.0075	-.003	-.016	.0020	2.2
	.49	.032	.0077	-.007	-.012	.0018	2.2
	1.02	.054	.0082	-.008	-.011	.0017	2.2
	2.10	.105	.0105	-.011	-.008	.0011	2.2
	4.20	.208	.0176	-.018	-.016	.0009	2.2
	6.29	.301	.0323	-.024	-.029	-.0001	2.2
	8.41	.405	.0521	-.030	-.044	-.0001	2.2
	10.52	.508	.0863	-.032	-.064	-.0012	2.1
	12.64	.616	.1277	-.033	-.089	-.0022	2.1
	14.77	.725	.1777	-.035	-.106	-.0031	2.0
	16.91	.855	.2424	-.042	-.115	.0009	2.0
	17.99	.908	.2757	-.041	-.124	.0009	2.0
0.80	-4.21	-.194	.0171	.009	-.017	.0025	2.2
	-2.10	-.089	.0095	0	-.023	.0020	2.2
	-1.08	-.039	.0075	-.004	-.021	.0020	2.2
	-.49	-.012	.0070	-.006	-.019	.0019	2.2
	.51	.035	.0072	-.008	-.014	.0018	2.2
	1.04	.061	.0079	-.010	-.011	.0017	2.2
	2.11	.114	.0104	-.014	-.007	.0012	2.2
	4.23	.217	.0194	-.022	-.021	.0002	2.2
	6.36	.324	.0364	-.030	-.037	.0010	2.2
	8.49	.431	.0635	-.036	-.056	.0022	2.1
	10.59	.520	.0956	-.034	-.089	-.0004	2.0
	12.73	.632	.1402	-.042	-.118	-.0011	1.9
	14.87	.744	.1989	-.049	-.141	-.0017	1.9
	17.00	.856	.2577	-.058	-.173	-.0034	1.8
	18.07	.905	.2890	-.059	-.188	-.0038	1.7
0.90	-4.24	-.208	.0186	.012	-.026	.0034	2.2
	-2.11	-.097	.0096	.002	-.035	.0021	2.1
	-1.07	-.040	.0072	-.004	-.030	.0028	2.2
	-.54	-.012	.0068	-.007	-.029	.0028	2.2
	.50	.039	.0071	-.010	-.021	.0027	2.2
	1.06	.068	.0078	-.013	-.013	.0024	2.2
	2.13	.124	.0107	-.018	-.006	.0018	2.2
0.90	4.26	0.237	0.0214	-0.029	-0.026	-0.0005	2.2
	6.39	.342	.0393	-.036	-.055	.0006	2.1
	8.53	.459	.0685	-.045	-.084	.0011	2.1
1.20	-4.23	-.210	.0244	.034	.029	.0021	2.4
	-2.09	-.102	.0150	.015	-.003	.0015	2.2
	-1.04	-.050	.0127	.006	-.021	.0012	2.1
	-.47	-.022	.0121	.002	-.030	.0010	2.1
	.47	.025	.0122	-.006	-.025	.0007	2.1
	1.02	.053	.0131	-.011	-.005	.0005	2.0
	2.06	.105	.0158	-.020	-.003	.0002	2.0
	4.12	.213	.0257	-.039	-.123	-.0004	1.8
	6.19	.320	.0426	-.058	-.161	-.0011	1.7
	8.26	.429	.0685	-.075	-.200	-.0005	1.5
	10.34	.533	.1013	-.090	-.235	-.0007	1.4
	12.42	.651	.1472	-.116	-.282	-.0007	1.3
1.30	-4.12	-.195	.0273	.030	.039	.0014	2.4
	-2.06	-.093	.0189	.013	-.003	.0010	2.2
	-1.01	-.046	.0161	.006	-.022	.0010	2.2
	-.47	-.020	.0155	.001	-.030	.0007	2.1
	.48	.024	.0157	-.006	-.026	.0006	2.1
	1.01	.050	.0165	-.010	-.008	.0006	2.0
	2.05	.099	.0192	-.018	-.075	.0004	2.0
	4.12	.197	.0284	-.035	-.115	.0001	1.8
	6.19	.296	.0443	-.050	-.151	-.0007	1.7
	8.25	.392	.0673	-.065	-.184	-.0009	1.6
	10.32	.484	.0971	-.078	-.222	-.0016	1.4
	12.39	.574	.1336	-.096	-.261	-.0022	1.3
	14.45	.662	.1764	-.105	-.301	-.0030	1.2
	16.52	.748	.2259	-.116	-.339	-.0042	1.0
	17.21	.775	.2433	-.120	-.353	-.0049	1.0
1.50	-4.12	-.176	.0241	.026	.038	.0007	2.4
	-2.05	-.085	.0156	.011	-.002	.0006	2.2
	-1.00	-.040	.0133	.004	-.019	.0005	2.2
	-.48	-.017	.0127	.001	-.027	.0003	2.2
	.48	.023	.0128	-.006	-.023	.0006	2.1
	1.01	.047	.0136	-.010	-.005	.0006	2.0
	2.05	.092	.0162	-.017	-.072	.0004	2.0
1.50	4.11	0.188	0.0292	-0.032	-0.110	0.0002	1.8
	6.17	.269	.0399	-.046	-.144	-.0001	1.7
	8.24	.355	.0610	-.058	-.176	-.0008	1.6
	10.30	.436	.0876	-.070	-.207	-.0008	1.5
	12.37	.516	.1200	-.081	-.241	-.0004	1.3
	14.43	.598	.1576	-.098	-.275	-.0005	1.2
	16.49	.688	.2013	-.101	-.312	-.0009	1.1
	17.52	.705	.2251	-.105	-.327	-.0017	1.0
1.70	-4.11	-.161	.0229	.023	.039	.0004	2.4
	-2.05	-.079	.0150	.010	.002	.0005	2.3
	-1.00	-.039	.0130	.004	-.014	.0006	2.2
	-.48	-.018	.0126	.001	-.022	.0006	2.2
	.47	.019	.0127	-.005	-.038	.0007	2.1
	1.00	.042	.0133	-.009	-.048	.0007	2.1
	2.04	.082	.0154	-.015	-.066	.0008	2.0
	4.10	.163	.0236	-.028	-.100	.0008	1.9
	6.16	.242	.0371	-.039	-.134	.0009	1.7
	8.22	.317	.0586	-.050	-.161	.0006	1.6
	10.27	.390	.0924	-.061	-.191	.0007	1.5
	12.33	.462	.1385	-.070	-.223	.0006	1.4
	14.39	.531	.1982	-.078	-.255	.0006	1.3
	16.45	.596	.1806	-.085	-.285	.0009	1.2
	17.49	.630	.2021	-.087	-.299	.0008	1.1
1.90	-4.10	-.144	.0233	.019	-.037	.0003	2.4
	-2.04	-.072	.0163	.009	.005	.0009	2.3
	-1.00	-.035	.0146	.003	-.012	.0006	2.2
	-.48	-.017	.0143	0	-.019	.0006	2.2
	.47	.015	.0143	-.004	-.034	.0006	2.1
	.99	.036	.0147	-.007	-.043	.0006	2.1
	2.04	.073	.0164	-.013	-.060	.0008	2.0
	4.09	.145	.0238	-.023	-.091	.0008	1.9
	6.14	.215	.0357	-.033	-.121	.0010	1.8
	8.20	.282	.0523	-.042	-.149	.0011	1.7
	10.24	.347	.0735	-.051	-.176	.0009	1.6
	12.30	.412	.0992	-.059	-.208	.0012	1.5
	14.35	.474	.1293	-.064	-.236	.0012	1.4
	16.41	.533	.1642	-.069	-.266	.0011	1.2
	17.44	.566	.1838	-.071	-.280	.0012	1.2

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-8.42	-0.414	0.0565	0.024	0.038	0.0013	0.1
	-6.32	-.306	.0327	.018	.024	-.0004	.1
	-4.20	-.203	.0170	.012	.007	-.0008	.1
	-2.10	-.107	.0103	.006	-.001	-.0015	.1
	-1.08	-.058	.0082	.003	-.000	-.0017	.1
	-.50	-.034	.0077	.002	.001	-.0019	.1
	.47	.012	.0075	0	.004	-.0021	.1
	.99	.035	.0078	0	.005	-.0021	.1
	2.07	.086	.0097	-.003	.008	-.0026	.1
	4.18	.189	.0161	-.010	.001	-.0033	.1
	6.29	.283	.0302	-.016	-.005	-.0038	0
	8.39	.366	.0511	-.023	-.021	-.0038	0
	10.51	.493	.0831	-.026	-.034	-.0043	0
	12.63	.598	.1226	-.026	-.063	-.0055	0
	14.74	.705	.1715	-.028	-.083	-.0061	0
	16.89	.839	.2364	-.034	-.094	-.0086	-.1
	17.96	.897	.2708	-.034	-.103	-.0026	-.1
0.80	-8.48	-.434	.0634	.030	.051	.0036	.2
	-6.35	-.319	.0336	.023	.024	-.0008	.1
	-4.23	-.213	.0186	.016	.006	-.0004	.1
	-2.11	-.110	.0105	.008	-.004	-.0012	0
	-1.04	-.059	.0083	.004	-.001	-.0014	.1
	-.50	-.033	.0076	.002	.001	-.0015	.1
	.47	.014	.0074	0	.006	-.0017	.1
	1.01	.039	.0077	-.001	- - -	-.0018	- - -
	2.09	.091	.0097	-.006	.013	-.0023	.1
	4.21	.194	.0174	-.014	.006	-.0032	.1
	6.33	.298	.0338	-.021	-.008	-.0024	0
	8.45	.407	.0584	-.027	-.026	-.0020	0
	10.56	.497	.0898	-.026	-.052	-.0036	0
	12.69	.606	.1329	-.035	-.090	-.0034	.1
	14.82	.721	.1831	-.042	-.110	-.0048	.2
	16.96	.833	.2466	-.050	-.140	-.0069	.2
	18.01	.872	.2731	-.050	-.153	-.0073	.3
0.90	-8.54	-.468	.0698	.039	.077	.0027	.3
	-6.38	-.389	.0375	.027	.040	0	.2
	-4.26	-.226	.0204	.021	.005	-.0008	.1
	-2.12	-.116	.0100	.011	-.013	-.0011	0
	-1.05	-.062	.0075	.005	-.007	-.0015	0
	-.51	-.035	.0069	.003	-.004	-.0015	.1
	.48	.017	.0068	0	.004	-.0017	.1
	1.02	.043	.0072	-.002	.009	-.0018	.1
0.90	2.12	0.101	0.0093	-0.008	0.018	-0.0022	0.1
	4.24	.212	.0188	-.019	.006	-.0036	.1
	6.36	.317	.0361	-.028	-.027	-.0035	0
	8.49	.424	.0626	-.038	-.050	-.0034	0
	10.62	.535	.0990	-.040	-.088	-.0040	-.1
1.20	-8.26	-.442	.0699	.076	.168	.0002	.6
	-6.19	-.330	.0437	.058	.187	.0010	.5
	-4.12	-.219	.0261	.039	.090	.0004	.4
	-2.06	-.112	.0164	.020	.045	-.0004	.2
	-1.02	-.059	.0138	.011	.026	-.0005	.1
	-.49	-.033	.0130	.006	.018	-.0008	.1
	.47	.017	.0129	-.008	-.001	-.0011	.1
	1.00	.049	.0136	-.006	-.008	-.0013	0
	2.05	.098	.0159	-.014	-.024	-.0017	0
	4.33	.204	.0258	-.034	-.065	-.0088	-.1
	6.18	.310	.0412	-.051	-.103	-.0037	-.2
	8.25	.418	.0660	-.068	-.145	-.0051	-.4
	10.32	.523	.0978	-.084	-.179	-.0034	-.5
	12.39	.643	.1481	-.107	-.235	-.0037	-.7
1.30	-8.26	-.402	.0685	.066	.156	.0003	.6
	-6.20	-.305	.0440	.050	.125	0	.5
	-4.13	-.204	.0284	.034	.091	-.0005	.4
	-2.06	-.103	.0190	.018	.047	-.0006	.2
	-1.02	-.053	.0163	.010	.026	-.0007	.2
	-.48	-.029	.0156	.005	.019	-.0009	.1
	.47	.018	.0154	-.002	.001	-.0010	.1
	1.02	.043	.0161	-.006	-.003	-.0011	0
	2.05	.092	.0184	-.014	-.024	-.0012	0
	4.11	.190	.0272	-.030	-.065	-.0016	-.1
	6.19	.288	.0426	-.046	-.102	-.0024	-.2
	8.25	.384	.0634	-.060	-.135	-.0027	-.3
	10.32	.478	.0950	-.074	-.174	-.0034	-.5
	12.39	.568	.1311	-.087	-.213	-.0040	-.6
	14.45	.654	.1788	-.100	-.252	-.0046	-.8
	16.52	.740	.2291	-.111	-.287	-.0050	-.9
	17.56	.780	.2681	-.116	-.305	-.0070	-1.0
1.50	-8.23	-.359	.0619	.057	.147	-.0002	.6
	-6.17	-.272	.0407	.044	.117	-.0004	.5
	-4.11	-.183	.0260	.030	.080	-.0006	.4
	-2.05	-.091	.0172	.015	.041	-.0008	.2
	-1.01	-.047	.0148	.008	.023	-.0008	.1
	-.48	-.024	.0140	.004	.014	-.0008	.1
1.50	0.47	0.017	0.0138	-0.008	-0.000	-0.0008	0.1
	1.00	.041	.0145	-.006	-.011	-.0008	0
	2.05	.086	.0168	-.014	-.029	-.0010	0
	4.11	.177	.0254	-.028	-.068	-.0011	-.1
	6.17	.264	.0395	-.042	-.104	-.0013	-.2
	8.23	.349	.0601	-.055	-.135	-.0017	-.4
	10.28	.430	.0863	-.067	-.165	-.0018	-.5
	12.34	.509	.1179	-.077	-.200	-.0021	-.6
	14.40	.587	.1593	-.086	-.234	-.0022	-.7
	16.46	.662	.1981	-.097	-.270	-.0026	-.9
	17.50	.699	.2216	-.102	-.284	-.0035	-.9
1.70	-8.21	-.323	.0778	.050	.137	-.0009	.6
	-6.16	-.244	.0381	.038	.110	-.0006	.5
	-4.10	-.166	.0247	.026	.077	-.0002	.3
	-2.05	-.089	.0166	.013	.040	-.0006	.2
	-1.02	-.044	.0144	.007	.023	-.0002	.1
	-.48	-.023	.0139	.004	.014	-.0002	.1
	.47	.015	.0137	-.002	.001	-.0004	0
	1.00	.037	.0142	-.005	-.010	-.0004	0
	2.04	.078	.0162	-.012	-.026	-.0004	0
	4.10	.159	.0240	-.024	-.064	-.0003	-.1
	6.15	.238	.0371	-.036	-.099	-.0002	-.2
	8.20	.318	.0559	-.047	-.127	-.0004	-.3
	10.26	.386	.0790	-.057	-.156	-.0004	-.5
	12.31	.457	.1074	-.067	-.187	-.0007	-.6
	14.37	.526	.1408	-.075	-.219	-.0005	-.7
1.90	-8.20	-.288	.0989	.042	.124	-.0010	.5
	-6.15	-.219	.0358	.031	.096	-.0008	.4
	-4.09	-.150	.0236	.021	.066	-.0007	.3
	-2.04	-.077	.0164	.011	.035	-.0006	.2
	-1.00	-.041	.0146	.005	.019	-.0005	.1
	-.47	-.022	.0141	.003	.011	-.0004	.1
	.48	.012	.0140	-.002	-.003	-.0004	0
	.99	.032	.0144	-.005	-.011	-.0004	0
	2.04	.069	.0159	-.010	-.027	-.0003	0
	4.09	.141	.0232	-.021	-.059	-.0003	-.1
	6.14	.210	.0347	-.031	-.090	0	-.2
	8.19	.277	.0513	-.040	-.119	0	-.3
	10.24	.345	.0726	-.048	-.145	-.0001	-.4
	12.30	.408	.0977	-.056	-.176	0	-.5
	14.35	.472	.1276	-.063	-.203	0	-.6
	16.40	.538	.1623	-.067	-.233	.0001	-.7
	17.43	.563	.1818	-.069	-.246	.0001	-.8

TABLE X.- CONTINUED



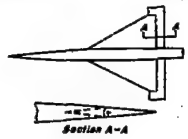
(c) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.21	-0.2218	0.0186	0.020	0.030	-0.0044	-1.8	0.90	6.38	0.284	0.0321	-0.017	0.008	-0.0073	-1.8	1.50	2.05	0.084	0.0172	-0.011	0.008	-0.0026	-1.8
	-2.11	-.119	.0109	.014	.017	-.0053	-1.8		8.43	.381	.0562	-.022	-.021	-.0072	-1.9		4.11	.173	.0256	-.026	-.030	-.0027	-2.0
	-1.04	-.072	.0085	.012	.017	-.0055	-1.8		10.37	.515	.0949	-.029	-.054	-.0071	-2.0		6.17	.264	.0399	-.040	-.065	-.0030	-2.1
	-.52	-.049	.0079	.010	.018	-.0057	-1.8		12.70	.682	.1391	-.040	-.092	-.0075	-2.1		8.23	.352	.0607	-.053	-.097	-.0033	-2.2
	.43	-.004	.0073	.009	.021	-.0057	-1.8										10.29	.433	.0870	-.065	-.127	-.0035	-2.3
	1.03	.020	.0076	.008	.023	-.0059	-1.8	1.20	-4.12	-.228	.0280	.045	.146	-.0020	-1.3		12.35	.513	.1188	-.076	-.164	-.0035	-2.5
	2.05	.070	.0092	.004	.025	-.0062	-1.8		-2.05	-.118	.0175	.025	.100	-.0027	-1.5		14.41	.590	.1563	-.086	-.198	-.0038	-2.6
	4.17	.169	.0155	-.002	.024	-.0072	-1.8		-1.02	-.063	.0146	.016	.083	-.0030	-1.6		16.47	.667	.1998	-.095	-.232	-.0043	-2.7
	6.27	.265	.0286	-.008	.013	-.0074	-1.8		-.49	-.026	.0137	.011	.075	-.0032	-1.6		17.50	.705	.2235	-.099	-.246	-.0052	-2.8
	8.38	.369	.0497	-.014	.000	-.0077	-1.9		.52	.014	.0136	.002	.054	-.0035	-1.7								
	10.50	.474	.0800	-.017	-.019	-.0086	-1.9		1.00	.040	.0143	-.002	.046	-.0037	-1.7	1.70	-4.10	-.169	.0257	.029	.109	-.0022	-1.4
	12.62	.578	.1202	-.018	-.039	-.0092	-1.9		2.14	.092	.0198	-.003	.028	-.0043	-1.8		-2.04	-.087	.0172	.016	.079	-.0022	-1.6
	14.73	.697	.1706	-.020	-.058	-.0097	-2.0		4.12	.201	.0259	-.030	-.010	-.0052	-1.9		-1.00	-.046	.0149	.010	.058	-.0020	-1.6
	16.86	.821	.2320	-.026	-.065	-.0097	-2.0		6.18	.308	.0418	-.048	-.047	-.0062	-2.0		-.48	-.024	.0143	.006	.048	-.0020	-1.7
	17.94	.868	.2639	-.025	-.074	-.0064	-2.0		8.25	.417	.0665	-.064	-.088	-.0056	-2.2		.47	.014	.0141	0	.031	-.0019	-1.7
									10.32	.523	.0984	-.080	-.122	-.0060	-2.3		1.00	.035	.0145	-.003	.023	-.0020	-1.8
0.80	-4.24	-.226	.0208	.025	.032	-.0041	-1.8		12.40	.641	.1422	-.101	-.170	-.0068	-2.5		2.05	.076	.0164	-.009	.005	-.0018	-1.8
	-2.12	-.125	.0116	.017	.016	-.0052	-1.8										4.10	.158	.0241	-.022	-.032	-.0018	-2.0
	-1.06	-.073	.0089	.014	.016	-.0055	-1.8	1.30	-4.09	-.209	.0254	.039	.136	-.0025	-1.3		6.16	.237	.0371	-.034	-.066	-.0017	-2.1
	-.52	-.049	.0081	.012	.018	-.0056	-1.8		-2.04	-.100	.0194	.023	.096	-.0027	-1.5		8.21	.313	.0553	-.045	-.094	-.0018	-2.2
	.51	-.002	.0077	.010	.024	-.0058	-1.8		-1.01	-.057	.0169	.013	.077	-.0028	-1.6		10.26	.388	.0798	-.056	-.124	-.0019	-2.3
	1.03	.023	.0081	.008	.026	-.0058	-1.8		-.48	-.031	.0161	.009	.069	-.0029	-1.6		12.32	.460	.1077	-.065	-.159	-.0020	-2.5
	2.08	.073	.0098	.004	.030	-.0062	-1.8		.52	.015	.0160	.002	.048	-.0029	-1.7		14.38	.529	.1411	-.073	-.188	-.0020	-2.6
	4.20	.180	.0168	-.005	.027	-.0069	-1.8		1.00	.039	.0166	-.002	.041	-.0030	-1.7		16.43	.596	.1796	-.080	-.217	-.0021	-2.7
	6.32	.282	.0314	-.012	.013	-.0063	-1.8		2.04	.088	.0189	-.010	.022	-.0032	-1.8		17.47	.630	.2008	-.082	-.231	-.0025	-2.7
	8.44	.386	.0559	-.017	-.001	-.0066	-1.9		4.10	.186	.0275	-.027	-.017	-.0038	-1.9								
	10.56	.484	.0878	-.018	-.027	-.0069	-2.0		6.15	.287	.0426	-.043	-.055	-.0044	-2.1	1.90	-4.08	-.151	.0252	.024	.095	-.0020	-1.5
	12.69	.595	.1305	-.026	-.057	-.0071	-2.0		8.21	.383	.0652	-.057	-.087	-.0048	-2.2		-2.04	-.078	.0175	.013	.065	-.0012	-1.6
	14.82	.711	.1826	-.034	-.075	-.0106	-2.1		10.26	.477	.0945	-.072	-.126	-.0054	-2.3		-.99	-.041	.0154	.008	.049	-.0018	-1.7
	16.96	.819	.2577	-.042	-.101	-.0100	-2.1		12.32	.568	.1304	-.084	-.166	-.0061	-2.5		-.47	-.022	.0149	.005	.041	-.0018	-1.7
	18.02	.867	.2902	-.043	-.116	-.0102	-2.2		14.38	.657	.1728	-.097	-.204	-.0068	-2.6		.47	.012	.0147	0	.025	-.0017	-1.8
									16.44	.742	.2213	-.108	-.238	-.0082	-2.7		.99	.031	.0149	-.003	.017	-.0017	-1.8
0.90	-4.22	-.230	.0209	.032	.037	-.0041	-1.7		17.46	.781	.2468	-.113	-.256	-.0094	-2.8		2.04	.068	.0165	-.008	.000	-.0016	-1.9
	-2.11	-.128	.0106	.022	.012	-.0054	-1.8										4.08	.140	.0233	-.019	-.031	-.0015	-2.0
	-1.06	-.076	.0079	.016	.014	-.0057	-1.8	1.50	-4.11	-.186	.0270	.033	.119	-.0023	-1.4		6.12	.211	.0348	-.029	-.062	-.0013	-2.1
	-.52	-.049	.0069	.014	.020	-.0059	-1.8		-2.05	-.095	.0180	.018	.081	-.0023	-1.5		8.16	.278	.0511	-.038	-.091	-.0013	-2.2
	.47	-.002	.0066	.011	.030	-.0060	-1.8		-1.01	-.050	.0154	.011	.054	-.0025	-1.6		10.20	.345	.0721	-.046	-.118	-.0014	-2.3
	1.03	.023	.0069	.008	.034	-.0062	-1.8		-.48	-.027	.0146	.007	.034	-.0024	-1.6		12.25	.410	.0976	-.054	-.148	-.0013	-2.4
	2.08	.078	.0038	.002	.037	-.0066	-1.7		.48	.017	.0145	0	.034	-.0029	-1.7		14.29	.473	.1271	-.061	-.176	-.0013	-2.5
	4.20	.184	.0166	-.010	.034	-.0071	-1.8		1.00	.039	.0150	-.003	.028	-.0026	-1.7		16.34	.534	.1619	-.064	-.204	-.0013	-2.6
																	17.37	.564	.1812	-.066	-.218	-.0013	-2.7

(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.22	-0.237	0.0209	0.027	0.054	-0.0072	-3.6	0.90	6.34	0.277	0.0329	-0.006	0.048	-0.0108	-3.6	1.50	4.11	0.166	0.0252	-0.021	0.012	-0.0040	-3.7
	-2.13	-.143	.0129	.021	.036	-.0085	-3.7		8.47	.380	.0576	-.018	.082	-.0113	-3.6		6.17	.254	.0388	-.035	-.025	-.0041	-3.9
	-1.06	-.096	.0101	.018	.033	-.0090	-3.7		10.61	.488	.0921	-.019	.025	-.0118	-3.7		8.23	.341	.0591	-.048	-.057	-.0045	-4.0
	-.53	-.072	.0094	.018	.034	-.0088	-3.7										10.29	.422	.0847	-.060	-.090	-.0047	-4.1
	.43	-.027	.0084	.016	.038	-.0091	-3.7	1.20	-4.12	-.240	.0293	.051	.208	-.0043	-3.0		12.35	.502	.1163	-.071	-.126	-.0047	-4.2
	.96	-.003	.0084	.015	.038	-.0090	-3.7		-2.06	-.129	.0184	.031	.162	-.0048	-3.2		14.41	.579	.1533	-.081	-.159	-.0049	-4.4
	2.09	.048	.0097	.012	.038	-.0094	-3.7		-1.02	-.074	.0153	.021	.148	-.0050	-3.2		16.48	.656	.1959	-.090	-.192	-.0055	-4.5
	4.16	.148	.0149	.005	.038	-.0103	-3.7		-.50	-.050	.0144	.017	.138	-.0051	-3.3		17.51	.692	.2187	-.094	-.205	-.0064	-4.5
	6.26	.246	.0267	-.001	.031	-.0105	-3.7		.51	.003	.0140	.008	.116	-.0053	-3.3								
	8.37	.346	.0464	-.006	.018	-.0112	-3.7		1.05	.030	.0146	.004	.107	-.0057	-3.4	1.70	-4.11	-.176	.0267	.026	.142	-.0034	-3.1
	10.47	.448	.0760	-.010	.000	-.0117	-3.8		2.05	.082	.0165	-.005	.086	-.0060	-3.4		-2.05	-.095	.0179	.019	.111	-.0033	-3.3
	12.61	.561	.1158	-.011	-.017	-.0122	-3.8		4.12	.188	.0249	-.023	.044	-.0071	-3.7		-.99	-.033	.0153	.013	.093	-.0032	-3.5
	14.74	.674	.1645	-.013	-.032	-.0127	-3.8		6.19	.296	.0406	-.041	.007	-.0079	-3.7		-.49	-.013	.0146	.010	.084	-.0031	-3.4
	16.88	.800	.2292	-.018	-.041	-.0100	-3.8		8.26	.403	.0648	-.058	-.033	-.0074	-3.9		.51	.007	.0144	.003	.066	-.0030	-3.5
	17.92	.850	.2558	-.017	-.050	-.0097	-3.9		10.33	.508	.0961	-.073	-.063	-.0077	-3.8		1.00	.028	.0146	.001	.078	-.0030	-3.5
									12.40	.623	.1385	-.093	-.111	-.0069	-4.2		2.05	.069	.0164	-.006	.041	-.0030	-3.6
0.80	-4.23	-.250	.0231	.032	.062	-.0071	-3.6		14.49	.699	.1794	-.084	-.137	-.0141	-4.1		4.10	.149	.0236	-.017	.004	-.0029	-3.7
	-2.14	-.151	.0134	.025	.046	-.0089	-3.7										6.16	.229	.0363	-.031	-.029	-.0028	-3.9
	-1.09	-.100	.0103	.022	.037	-.0089	-3.8	1.30	-4.13	-.218	.0319	.044	.191	-.0041	-3.0		8.22	.304	.0541	-.042	-.058	-.0029	-4.0
	-.55	-.075	.0092	.020	.039	-.0090	-3.7		-2.06	-.116	.0206	.026	.151	-.0043	-3.2		10.28	.379	.0773	-.052	-.080	-.0029	-4.1
	.47	-.026	.0082	.018	.044	-.0092	-3.7		-1.02	-.067	.0175	.018	.130	-.0044	-3.3		12.34	.451	.1058	-.062	-.119	-.0030	-4.3
	1.02	-.002	.0083	.016	.045	- - -	-3.7		-.49	-.042	.0167	.014	.121	-.0044	-3.3		14.40	.519	.1388	-.069	-.149	-.0030	-4.4
	2.10	.052	.0097	.012	.047	-.0095	-3.7		.52	.005	.0162	.006	.098	-.0045	-3.4		16.47	.586	.1767	-.076	-.177	-.0031	-4.5
	4.18	.156	.0156	.003	.047	-.0101	-3.7		1.00	.031	.0168	.002	.092	-.0046	-3.4		17.50	.620	.1979	-.078	-.190	-.0035	-4.6
	6.30	.259	.0292	-.004	.036	-.0098	-3.8		2.06	.079	.0188	-.005	.072	-.0048	-3.5								
	8.42	.368	.0533	-.008	.021	-.0106	-3.8		4.12	.178	.0270	-.022	.032	-.0051	-3.6	1.90	-4.10	-.198	.0256	.026	.125	-.0030	-3.3
	10.54	.460	.0841	-.011	-.007	-.0095	-3.9		6.19	.276	.0417	-.038	-.005	-.0058	-3.8		-2.05	-.085	.0176	.016	.094	-.0029	-3.4
	12.67	.572	.1264	-.019	-.026	-.0101	-3.9		8.26	.373	.0640	-.052	-.040	-.0061	-3.9		-1.01	-.048	.0155	.010	.078	-.0028	-3.5
	14.80	.697	- - -	-.026	-.044	-.0110	-3.9		10.33	.466	.0930	-.069	-.079	-.0068	-4.0		-.48	-.029	.0149	.008	.070	-.0027	-3.5
	16.93	.797	.2337	-.033	-.068	-.0129	-3.9		12.40	.556	.1284	-.078	-.119	-.0075	-4.2		.51	.007	.0146	.003	.054	-.0027	-3.5
	18.00	.849	.2685	-.035	-.082	-.0128	-4.0		14.46	.644	.1703	-.091	-.158	-.0083	-4.3		1.00	.025	.0148	0	.046	-.0026	-3.6
									16.54	.730	.2190	-.102	-.191	-.0096	-4.5		2.04	.062	.0162	-.005	.030	-.0025	-3.6
0.90	-4.28	-.265	.0246	.039	.074	-.0072	-3.5										4.09	.134	.0230	-.016	-.003	-.0024	-3.8
	-2.16	-.160	.0137	.031	.049	-.0086	-3.6	1.50	-4.11	-.195	.0283	.037	.164	-.0037	-3.1		6.14	.205	.0343	-.026	-.035	-.0022	-3.9
	-1.10	-.104	.0101	.025	.049	-.0094	-3.6		-2.05	-.104	.0188	.022	.127	-.0038	-3.3		8.20	.271	.0503	-.035	-.064	-.0021	-4.0
	-.56	-.079	.0090	.024	.058	-.0096	-3.6		-1.02	-.078	.0159	.015	.108	-.0038	-3.3		10.25	.338	.0713	-.043	-.089	-.0022	-4.1
	.46	-.069	.0081	.021	.071	-.0098	-3.5		-.49	-.035	.0149	.011	.097	-.0037	-3.4		12.31	.403	.0963	-.051	-.119	-.0021	-4.2
	1.02	-.001	.0081	.018	.072	-.0099	-3.5		.52	.010	.0146	.004	.077	-.0037	-3.5		14.36	.465	.1259	-.058	-.146	-.0021	-4.3
	2.12	.058	.0096	.012	.073	-.0103	-3.5		1.00	.021	.0151	0	.071	-.0037	-3.5		16.42	.526	.1604	-.061	-.173	-.0022	-4.4
	4.21	.173	.0173	0	.084	-.0114	-3.6		2.05	.075	.0172	-.007	.092	-.0039	-3.6		17.45	.557	.1797	-.063	-.187	-.0021	-4.5

TABLE X.- CONTINUED



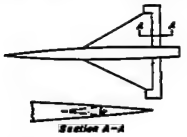
(e) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.273	0.0261	0.042	0.104	-0.0137	-7.5
	-2.15	-.178	.0163	.036	.094	-.0149	-7.6
	-1.10	-.131	.0130	.034	.088	-.0154	-7.6
	-.58	-.109	.0117	.033	.080	-.0157	-7.6
	.39	-.068	.0101	.032	.077	-.0162	-7.6
	.92	-.043	.0097	.031	.075	-.0161	-7.6
	2.04	.009	.0102	.028	.073	-.0163	-7.6
	4.18	.109	.0137	.021	.071	-.0168	-7.6
	6.23	.205	.0228	.015	.067	-.0173	-7.6
	8.39	.306	.0431	.008	.056	-.0178	-7.6
	10.45	.412	.0711	.005	.040	-.0183	-7.7
	12.57	.520	.1089	.003	.024	-.0186	-7.7
	14.69	.633	.1573	.001	.013	-.0191	-7.7
	16.81	.741	.2096	.001	.002	-.0209	-7.8
	17.88	.792	.2390	.002	-.003	-.0210	-7.8
0.80	-4.28	-.283	.0284	.047	.121	-.0129	-7.4
	-2.16	-.180	.0172	.039	.118	-.0135	-7.4
	-1.11	-.132	.0133	.037	.097	-.0151	-7.5
	-.58	-.110	.0121	.037	.095	-.0159	-7.5
	.48	-.065	.0106	.035	.100	-.0160	-7.5
	.97	-.040	.0104	.033	.099	-.0160	-7.5
	2.05	.013	.0110	.029	.093	-.0163	-7.5
	4.21	.121	.0156	.019	.084	-.0167	-7.5
	6.27	.222	.0272	.013	.077	-.0167	-7.5
	8.39	.329	.0482	.008	.062	-.0172	-7.6
	10.51	.434	.0785	.004	.044	-.0160	-7.6
	12.64	.537	.1192	-.004	.029	-.0166	-7.7
	14.78	.651	.1696	-.011	.019	-.0177	-7.7
	16.77	.770	.1903	-.018	.003	-.0197	-7.7
	17.97	.812	.2589	-.020	-.006	-.0198	-7.8
0.90	-4.31	-.293	.0307	.053	.155	-.0183	-7.3
	-2.17	-.185	.0180	.043	.148	-.0187	-7.3
	-1.11	-.133	.0137	.040	.138	-.0143	-7.4
	-.58	-.108	.0124	.038	.132	-.0145	-7.4
	.39	-.060	.0108	.035	.132	-.0150	-7.4
	.93	-.038	.0107	.033	.135	-.0152	-7.3
	2.07	.027	.0116	.027	.134	-.0155	-7.4
	4.24	.142	.0180	.016	.125	-.0168	-7.4
0.90	6.31	0.244	0.0323	0.009	0.129	-0.0163	-7.4
	8.45	.349	.0562	.003	.147	-.0165	-7.3
	10.59	.459	.0900	-.005	.140	-.0159	-7.3
	12.72	.568	.1320	-.016	.115	-.0161	-7.4
1.20	-4.12	-.262	.0342	.064	.302	-.0101	-6.7
	-2.05	-.151	.0222	.043	.270	-.0105	-6.8
	-1.02	-.098	.0187	.034	.269	-.0105	-6.8
	-.51	-.071	.0174	.029	.261	-.0106	-6.8
	.50	-.020	.0165	.020	.241	-.0107	-6.9
	1.03	.008	.0167	.016	.230	-.0108	-7.0
	2.05	.063	.0181	.006	.198	-.0110	-7.1
	4.11	.169	.0255	-.013	.147	-.0115	-7.2
	6.18	.275	.0403	-.031	.108	-.0123	-7.4
	8.24	.382	.0634	-.048	.070	-.0115	-7.5
	10.31	.490	.0939	-.065	.035	-.0117	-7.6
	12.39	.606	.1344	-.083	-.006	-.0128	-7.8
1.30	-4.12	-.234	.0347	.053	.285	-.0082	-6.7
	-2.06	-.133	.0238	.035	.252	-.0089	-6.8
	-1.03	-.083	.0203	.027	.235	-.0084	-6.9
	-.50	-.058	.0191	.023	.225	-.0085	-6.9
	.45	-.010	.0182	.015	.199	-.0084	-7.0
	1.04	.015	.0185	.011	.191	-.0089	-7.1
	2.06	.064	.0201	.003	.168	-.0088	-7.2
	4.12	.161	.0273	-.013	.124	-.0090	-7.3
	6.19	.259	.0416	-.029	.085	-.0095	-7.5
	8.25	.354	.0628	-.044	.048	-.0097	-7.6
	10.31	.453	.0918	-.058	.008	-.0108	-7.7
	12.39	.544	.1263	-.071	-.033	-.0109	-7.9
	14.45	.631	.1672	-.083	-.073	-.0115	-8.0
	16.52	.715	.2147	-.094	-.106	-.0127	-8.1
	17.55	.756	.2402	-.099	-.119	-.0140	-8.2
1.50	-4.11	-.206	.0318	.044	.249	-.0069	-6.8
	-2.05	-.115	.0211	.029	.213	-.0069	-6.9
	-1.02	-.070	.0180	.022	.194	-.0070	-7.0
	-.49	-.047	.0168	.016	.181	-.0069	-7.1
	.47	-.003	.0162	.011	.162	-.0068	-7.1
	1.04	.019	.0166	.008	.153	-.0069	-7.2
1.50	2.05	0.064	0.0183	0	0.134	-0.0071	-7.2
	4.11	.152	.0254	-.014	.098	-.0072	-7.4
	6.18	.240	.0385	-.028	.054	-.0072	-7.5
	8.24	.325	.0578	-.041	.019	-.0074	-7.7
	10.30	.407	.0831	-.053	-.015	-.0075	-7.8
	12.37	.487	.1134	-.064	-.053	-.0075	-8.0
	14.43	.564	.1496	-.074	-.086	-.0077	-8.1
	16.50	.640	.1915	-.083	-.119	-.0083	-8.2
	17.53	.675	.2142	-.087	-.131	-.0091	-8.3
1.70	-4.11	-.186	.0296	.038	.221	-.0062	-6.9
	-2.05	-.104	.0202	.025	.186	-.0060	-7.0
	-1.02	-.062	.0175	.019	.170	-.0060	-7.1
	-.50	-.042	.0165	.016	.160	-.0059	-7.1
	.47	-.002	.0159	.010	.142	-.0057	-7.2
	1.04	.019	.0162	.006	.133	-.0058	-7.2
	2.05	.059	.0175	0	.114	-.0057	-7.3
	4.11	.139	.0240	-.013	.074	-.0056	-7.5
	6.16	.218	.0359	-.025	.037	-.0054	-7.6
	8.22	.294	.0534	-.036	.003	-.0054	-7.7
	10.27	.369	.0760	-.046	-.028	-.0055	-7.9
	12.34	.439	.1049	-.056	-.061	-.0054	-8.0
	14.39	.508	.1355	-.064	-.092	-.0055	-8.1
	16.46	.576	.1730	-.070	-.121	-.0056	-8.2
	17.47	.609	.1935	-.072	-.134	-.0060	-8.3
1.90	-4.09	-.166	.0288	.032	.190	-.0056	-7.0
	-2.04	-.093	.0199	.021	.160	-.0054	-7.2
	-1.01	-.055	.0174	.015	.142	-.0052	-7.2
	-.48	-.037	.0166	.013	.134	-.0052	-7.2
	.46	-.008	.0161	.008	.118	-.0051	-7.3
	1.04	.017	.0162	.005	.109	-.0051	-7.3
	2.03	.053	.0172	0	.092	-.0049	-7.4
	4.09	.124	.0231	-.011	.056	-.0047	-7.5
	6.15	.194	.0338	-.021	.021	-.0045	-7.7
	8.19	.260	.0490	-.030	-.008	-.0044	-7.8
	10.25	.327	.0693	-.039	-.037	-.0044	-7.9
	12.29	.391	.0934	-.048	-.066	-.0042	-8.0
	14.35	.454	.1224	-.053	-.094	-.0043	-8.1
	16.41	.514	.1579	-.057	-.120	-.0044	-8.2
	17.44	.543	.1749	-.058	-.134	-.0044	-8.3

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.298	0.0311	0.051	0.152	-0.0177	-11.4
	-2.16	-.200	.0213	.047	.137	-.0196	-11.4
	-1.12	-.157	.0175	.046	.148	-.0208	-11.4
	-.59	-.134	.0159	.046	.133	-.0212	-11.5
	.36	-.096	.0142	.043	.130	-.0223	-11.5
	.88	-.073	.0145	.041	.185	-.0226	-11.5
	1.95	-.024	.0130	.041	.116	-.0227	-11.5
	4.15	.079	.0156	.034	.106	-.0233	-11.5
	6.27	.177	.0237	.029	.101	-.0235	-11.5
	8.31	.276	.0400	.023	.092	-.0240	-11.6
	10.43	.380	.0691	.019	.078	-.0244	-11.6
	12.55	.488	.1054	.016	.067	-.0250	-11.6
	14.68	.597	.1499	.015	.058	-.0260	-11.6
	16.80	.709	.2036	.015	.051	-.0276	-11.6
	17.85	.758	.2319	.016	.044	-.0277	-11.7
0.80	-4.29	-.296	.0326	.056	.190	-.0132	-11.2
	-2.48	-.194	.0208	.048	.190	-.0138	-11.2
	-1.12	-.150	.0168	.046	.178	-.0152	-11.3
	-.59	-.127	.0153	.045	.173	-.0156	-11.3
	.36	-.084	.0136	.044	.168	-.0164	-11.3
	.91	-.059	.0129	.043	.168	-.0164	-11.3
	2.00	-.005	.0132	.039	.163	-.0167	-11.3
	4.20	.102	.0174	.030	.146	-.0172	-11.4
	6.32	.207	.0289	.024	.137	-.0173	-11.4
	8.40	.308	.0491	.019	.124	-.0177	-11.4
	10.52	.408	.0784	.015	.114	-.0170	-11.4
	12.65	.521	.1186	.008	.108	-.0180	-11.5
	14.79	.631	.1666	.003	.112	-.0197	-11.4
	16.92	.742	.2241	-.008	.123	-.0221	-11.4
	17.99	.792	.2549	-.004	.120	-.0220	-11.4
0.90	-3.97	-.311	.0368	.066	.242	-.0164	-11.0
	-1.96	-.204	.0242	.056	.240	-.0174	-11.0
	-.95	-.152	.0183	.051	.215	-.0186	-11.1
	.45	-.127	.0171	.049	.216	-.0188	-11.1
	.45	-.082	.0150	.046	.210	-.0194	-11.1
	.96	-.053	.0144	.044	.206	-.0196	-11.1
	2.05	.007	.0148	.038	.198	-.0199	-11.2
	4.19	.124	.0203	.026	.192	-.0213	-11.2
0.90	6.31	0.230	0.0339	0.019	0.187	-0.0201	-11.2
	8.44	.335	.0573	.012	.201	-.0199	-11.2
	10.58	.444	.0908	.004	.218	-.0194	-11.1
1.20	-4.13	-.275	.0372	.074	.375	-.0121	-10.4
	-2.06	-.167	.0249	.055	.368	-.0126	-10.4
	-1.02	-.113	.0211	.045	.361	-.0126	-10.5
	-.50	-.087	.0196	.041	.355	-.0129	-10.5
	.44	-.037	.0186	.032	.341	-.0130	-10.5
	.98	-.008	.0185	.027	.331	-.0130	-10.6
	2.10	.050	.0194	.017	.292	-.0128	-10.7
	4.12	.155	.0263	-.003	.238	-.0130	-10.9
	6.20	.262	.0407	-.021	.201	-.0135	-11.0
	8.27	.368	.0634	-.037	.162	-.0128	-11.2
	10.35	.476	.0938	-.054	.125	-.0128	-11.3
	12.42	.581	.1315	-.067	.110	-.0172	-11.4
1.30	-4.12	-.242	.0386	.061	.367	-.0120	-10.4
	-2.05	-.142	.0273	.044	.349	-.0125	-10.5
	-1.02	-.094	.0236	.036	.337	-.0124	-10.5
	-.51	-.070	.0224	.032	.329	-.0125	-10.5
	.45	-.023	.0213	.025	.310	-.0123	-10.6
	.97	.002	.0213	.021	.302	-.0125	-10.6
	2.10	.055	.0225	.012	.265	-.0124	-10.4
	4.18	.151	.0292	-.005	.213	-.0124	-11.0
	6.19	.250	.0426	-.021	.172	-.0128	-11.1
	8.26	.345	.0634	-.035	.137	-.0130	-11.2
	10.33	.440	.0910	-.051	.095	-.0134	-11.4
	12.40	.531	.1252	-.064	.052	-.0138	-11.6
	14.46	.619	.1653	-.076	.011	-.0145	-11.7
	16.54	.705	.2126	-.087	-.024	-.0157	-11.8
	17.58	.745	.2377	-.091	-.036	-.0171	-11.9
1.50	-4.11	-.214	.0336	.051	.325	-.0080	-10.5
	-2.05	-.122	.0230	.036	.297	-.0082	-10.6
	-1.02	-.078	.0197	.028	.283	-.0082	-10.7
	-.49	-.034	.0184	.024	.269	-.0081	-10.7
	.46	-.013	.0175	.018	.249	-.0080	-10.8
	1.04	.011	.0178	.014	.240	-.0081	-10.8
	2.10	.058	.0192	.007	.216	-.0081	-10.9
1.50	4.13	0.145	0.0257	-0.008	0.168	-0.0081	-11.1
	6.19	.233	.0386	-.022	.127	-.0080	-11.3
	8.24	.318	.0574	-.035	.091	-.0082	-11.4
	10.31	.402	.0828	-.047	.053	-.0082	-11.5
	12.37	.482	.1131	-.059	.015	-.0082	-11.7
	14.44	.559	.1492	-.068	-.021	-.0082	-11.8
	16.51	.635	.1911	-.077	-.052	-.0086	-12.0
	17.55	.672	.2142	-.081	-.064	-.0095	-12.0
1.70	-4.11	-.193	.0316	.044	.295	-.0072	-10.6
	-2.04	-.110	.0216	.031	.261	-.0071	-10.8
	-1.02	-.069	.0187	.024	.243	-.0070	-10.8
	-.50	-.049	.0178	.021	.233	-.0070	-10.9
	.46	-.011	.0169	.015	.216	-.0069	-10.9
	1.04	.011	.0170	.012	.207	-.0067	-11.0
	2.09	.053	.0182	.005	.185	-.0067	-11.0
	4.11	.132	.0242	-.007	.141	-.0066	-11.2
	6.16	.212	.0358	-.020	.102	-.0063	-11.4
	8.22	.287	.0527	-.031	.064	-.0063	-11.5
	10.28	.363	.0754	-.041	.029	-.0062	-11.6
	12.34	.434	.1024	-.051	-.002	-.0062	-11.8
	14.40	.503	.1347	-.060	-.036	-.0062	-11.9
	16.46	.569	.1717	-.069	-.065	-.0063	-12.0
	17.49	.603	.1924	-.068	-.078	-.0067	-12.1
1.90	-4.09	-.174	.0319	.037	.253	-.0078	-10.8
	-2.04	-.097	.0227	.026	.220	-.0076	-10.9
	-1.02	-.061	.0201	.020	.203	-.0075	-11.0
	-.50	-.042	.0192	.018	.195	-.0075	-11.0
	.53	-.009	.0185	.013	.179	-.0073	-11.1
	1.03	.011	.0183	.010	.169	-.0073	-11.1
	2.03	.048	.0192	.004	.152	-.0070	-11.2
	4.09	.120	.0246	-.007	.114	-.0068	-11.3
	6.14	.190	.0348	-.017	.076	-.0066	-11.5
	8.20	.256	.0497	-.026	.043	-.0064	-11.6
	10.24	.322	.0693	-.034	.013	-.0064	-11.5
	12.25	.389	.0934	-.042	-.016	-.0062	-11.5
	14.35	.450	.1221	-.048	-.044	-.0062	-11.6
	16.41	.511	.1554	-.053	-.072	-.0064	-11.5
	17.43	.542	.1741	-.055	-.085	-.0064	-11.4

TABLE X.- CONTINUED



(g) Nominal δ, -16°

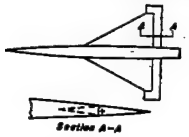
M	α	C_L	C_D	C_m	C_n	C_l	δ
0.60	-4.28	-.315	0.0365	0.050	0.212	-0.0206	-15.3
	-2.18	-.220	.0256	.055	.209	-.0221	-15.3
	-1.14	-.180	.0220	.056	.217	-.0246	-15.3
	-.62	-.161	.0230	.056	.213	-.0256	-15.3
	.32	-.122	.0181	.055	.206	-.0263	-15.3
	.87	-.096	.0173	.054	.199	-.0267	-15.3
	1.92	-.049	.0163	.052	.189	-.0269	-15.3
	4.12	.052	.0174	.045	.165	-.0260	-15.4
	6.24	.148	.0328	.040	.156	-.0282	-15.4
	8.35	.249	.0393	.034	.143	-.0287	-15.4
	10.41	.353	.0639	.030	.127	-.0291	-15.5
	12.54	.458	.1003	.028	.114	-.0299	-15.5
	14.65	.568	.1464	.027	.103	-.0311	-15.5
	16.77	.675	.1972	.028	.095	-.0331	-15.5
	17.83	.722	.2255	.028	.092	-.0335	-15.6
0.80	-4.31	-.319	.0394	.056	.258	-.0188	-15.1
	-2.19	-.215	.0263	.057	.249	-.0197	-15.1
	-1.13	-.172	.0224	.056	.249	-.0218	-15.1
	-.61	-.148	.0207	.055	.244	-.0223	-15.1
	.34	-.104	.0196	.052	.234	-.0226	-15.1
	.89	-.078	.0173	.051	.228	-.0228	-15.1
	1.96	-.028	.0168	.047	.219	-.0236	-15.2
	4.19	.082	.0199	.039	.207	-.0246	-15.2
	6.31	.188	.0303	.032	.199	-.0242	-15.2
	8.39	.292	.0491	.026	.187	-.0247	-15.2
	10.50	.393	.0774	.021	.166	-.0225	-15.3
	12.65	.510	.1180	.013	.156	-.0240	-15.3
	14.78	.617	.1642	.008	.151	-.0261	-15.3
	16.92	.728	.2210	.003	.137	-.0290	-15.3
	17.97	.778	.2520	.001	.128	-.0297	-15.3
0.90	-4.32	-.333	.0434	.074	.316	-.0188	-14.8
	-2.20	-.225	.0286	.065	.314	-.0195	-14.8
	-1.14	-.175	.0234	.061	.302	-.0205	-14.9
	-.61	-.148	.0215	.058	.295	-.0205	-14.9
	.34	-.104	.0192	.056	.286	-.0216	-14.9
	.88	-.076	.0182	.054	.275	-.0219	-14.9
0.90	1.98	-0.017	0.0177	0.048	0.269	-0.0226	-15.0
	4.22	.105	.0220	.039	.240	-.0237	-15.0
	6.36	.217	.0331	.025	.222	-.0206	-15.1
	8.43	.321	.0776	.018	.229	-.0208	-15.1
	10.56	.426	.0908	.012	.262	-.0212	-15.0
1.20	.44	-.058	.0242	.043	.415	-.0205	-14.3
	.96	-.031	.0239	.039	.410	-.0206	-14.3
	2.09	.090	.0239	.027	.368	-.0201	-14.4
	4.13	.138	.0298	.007	.302	-.0198	-14.7
	6.20	.244	.0432	-.011	.268	-.0203	-14.8
	8.31	.349	.0649	-.026	.238	-.0195	-14.9
	10.34	.460	.0944	-.046	.196	-.0190	-15.1
	12.42	.578	.1318	-.067	.155	-.0196	-15.2
1.30	-.50	-.087	.0270	.041	.401	-.0160	-14.3
	.45	-.041	.0256	.033	.387	-.0159	-14.3
	.97	-.015	.0256	.030	.382	-.0158	-14.3
	2.09	.039	.0260	.020	.337	-.0151	-14.5
	4.12	.138	.0317	.002	.278	-.0153	-14.7
	6.19	.235	.0445	-.014	.240	-.0156	-14.9
	8.26	.330	.0645	-.028	.207	-.0155	-15.0
	10.33	.428	.0918	-.043	.163	-.0157	-15.2
	12.39	.517	.1248	-.058	.123	-.0163	-15.3
	14.47	.607	.1648	-.070	.085	-.0166	-15.4
	16.53	.693	.2110	-.080	.045	-.0176	-15.6
	17.57	.732	.2358	-.085	.037	-.0189	-15.6
1.50	-4.11	-.225	.0402	.057	.383	-.0125	-14.3
	-2.05	-.135	.0293	.043	.366	-.0129	-14.4
	-1.02	-.091	.0299	.036	.359	-.0130	-14.4
	-.51	-.068	.0243	.032	.349	-.0128	-14.4
	.45	-.027	.0232	.025	.333	-.0127	-14.5
	.99	-.003	.0232	.022	.327	-.0126	-14.5
	2.09	.046	.0240	.013	.290	-.0129	-14.6
	4.12	.134	.0295	-.002	.232	-.0124	-14.9
	6.18	.222	.0415	-.016	.190	-.0123	-15.0
	8.24	.306	.0596	-.029	.157	-.0124	-15.2
1.50	10.31	0.390	0.0838	-0.041	0.116	-0.0122	-15.3
	12.37	.471	.1134	-.054	.079	-.0121	-15.5
	14.44	.548	.1486	-.063	.042	-.0122	-15.6
	16.50	.624	.1895	-.072	.009	-.0127	-15.7
	17.54	.661	.2120	-.076	-.002	-.0136	-15.8
1.70	-4.11	-.202	.0377	.049	.356	-.0114	-14.4
	-2.05	-.120	.0274	.037	.329	-.0114	-14.5
	-1.02	-.080	.0242	.030	.312	-.0113	-14.6
	-.51	-.059	.0232	.027	.302	-.0112	-14.6
	.46	-.021	.0220	.021	.287	-.0110	-14.7
	1.03	.001	.0219	.017	.280	-.0109	-14.7
	2.10	.044	.0227	.011	.254	-.0108	-14.8
	4.11	.123	.0277	-.002	.201	-.0104	-15.0
	6.16	.202	.0386	-.015	.159	-.0102	-15.1
	8.14	.277	.0543	-.026	.120	-.0101	-15.3
	10.27	.354	.0769	-.036	.085	-.0098	-15.4
	12.34	.424	.1034	-.046	.051	-.0096	-15.6
	14.39	.493	.1347	-.055	.018	-.0098	-15.7
	16.46	.561	.1711	-.061	-.012	-.0099	-15.8
	17.49	.593	.1909	-.063	-.026	-.0102	-15.9
1.90	-4.10	-.173	.0355	.041	.311	-.0102	-14.6
	-2.04	-.106	.0262	.030	.279	-.0099	-14.7
	-1.02	-.070	.0234	.025	.263	-.0098	-14.8
	-.50	-.051	.0224	.022	.255	-.0098	-14.8
	.45	-.018	.0213	.017	.240	-.0097	-14.9
	1.02	.003	.0211	.015	.230	-.0096	-14.9
	2.08	.041	.0218	.009	.211	-.0094	-15.0
	4.09	.111	.0266	-.002	.168	-.0090	-15.1
	6.14	.182	.0362	-.012	.127	-.0086	-15.3
	8.20	.249	.0505	-.022	.091	-.0084	-15.4
	10.24	.315	.0699	-.030	.059	-.0085	-15.5
	12.30	.381	.0937	-.038	.031	-.0082	-15.6
	14.35	.442	.1215	-.044	.001	-.0082	-15.8
	16.41	.504	.1546	-.047	-.027	-.0084	-15.9
	17.44	.534	.1729	-.051	-.040	-.0084	-15.9

(h) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_n	C_l	δ
0.60	-4.29	-0.333	0.0427	0.067	0.262	-0.0233	-19.3
	-2.19	-.238	.0309	.062	.258	-.0251	-19.3
	-1.15	-.194	.0267	.061	.259	-.0263	-19.3
	-.63	-.174	.0266	.061	.263	-.0271	-19.3
	.31	-.136	.0232	.062	.264	-.0295	-19.3
	.85	-.116	.0226	.061	.262	-.0299	-19.3
	1.97	-.068	.0209	.059	.248	-.0309	-19.3
	4.10	.031	.0211	.053	.222	-.0317	-19.4
	6.22	.129	.0267	.048	.217	-.0323	-19.4
	8.34	.232	.0416	.042	.208	-.0329	-19.4
	10.45	.335	.0695	.038	.191	-.0332	-19.4
	12.51	.440	.0979	.035	.180	-.0339	-19.5
	14.63	.547	.1407	.034	.169	-.0351	-19.5
	16.76	.655	.1949	.035	.162	-.0375	-19.5
	17.82	.707	.2241	.037	.160	-.0389	-19.5
0.80	-4.32	-.331	.0447	.071	.303	-.0212	-19.0
	-2.21	-.231	.0317	.064	.300	-.0229	-19.0
	-1.15	-.186	.0271	.062	.299	-.0242	-19.0
	-.62	-.165	.0256	.061	.300	-.0252	-19.0
	.32	-.122	.0228	.059	.290	-.0259	-19.1
	.86	-.096	.0218	.058	.282	-.0261	-19.1
	1.95	-.043	.0208	.054	.266	-.0268	-19.1
	4.16	.063	.0229	.046	.250	-.0286	-19.2
	6.30	.172	.0321	.038	.238	-.0275	-19.2
	8.42	.283	.0519	.030	.222	-.0270	-19.2
	10.50	.383	.0782	.025	.201	-.0246	-19.3
	12.63	.503	.1183	.016	.188	-.0253	-19.3
	14.77	.613	.1648	.011	.181	-.0272	-19.4
	16.92	.729	.2218	.006	.178	-.0302	-19.4
	17.98	.777	.2526	.005	.177	-.0306	-19.4
0.90	-4.33	-.346	.0490	.081	.375	-.0217	-18.7
	-2.21	-.243	.0343	.073	.376	-.0236	-18.7
0.90	-1.16	-0.193	0.0292	0.069	0.372	-0.0252	-18.8
	-.62	-.167	.0267	.066	.364	-.0253	-18.8
	.29	-.121	.0241	.064	.359	-.0261	-18.8
	.87	-.093	.0228	.061	.347	-.0262	-18.8
	1.95	-.035	.0213	.055	.319	-.0268	-18.9
	4.20	.084	.0246	.043	.295	-.0282	-19.0
	6.35	.201	.0366	.032	.266	-.0252	-19.1
	8.42	.309	.0573	.022	.238	-.0228	-19.1
1.20	2.23	.022	.0260	.034	.414	-.0247	-18.4
	4.17	.124	.0329	.014	.345	-.0241	-18.6
	6.19	.230	.0452	0	.311	-.0247	-18.8
	8.26	.334	.0663	-.020	.295	-.0240	-18.8
	10.34	.447	.0957	-.038	.252	-.0233	-19.0
	12.41	.553	.1315	-.055	.224	-.0271	-19.1
1.30	2.09	.025	.0295	.027	.389	-.0197	-18.4
	4.13	.125	.0343	.009	.317	-.0194	-18.7
	6.19	.223	.0466	-.007	.283	-.0196	-18.8
	8.26	.316	.0660	-.021	.264	-.0197	-18.9
	10.32	.417	.0923	-.036	.220	-.0197	-19.0
	12.39	.505	.1251	-.051	.179	-.0200	-19.2
	14.46	.593	.1642	-.063	.142	-.0204	-19.3
	16.53	.679	.2099	-.074	.102	-.0210	-19.5
	17.56	.720	.2347	-.079	.096	-.0224	-19.5
1.50	.43	-.039	.0266	.031	.383	-.0160	-18.4
	.97	-.015	.0266	.028	.380	-.0164	-18.4
	2.09	-.034	.0270	.019	.339	-.0160	-18.6
	4.12	.124	.0318	.004	.272	-.0157	-18.8
	6.18	.211	.0433	-.011	.231	-.0156	-19.0
	8.25	.295	.0608	-.023	.207	-.0156	-19.1
	10.30	.380	.0846	-.036	.167	-.0158	-19.2
	12.37	.461	.1137	-.048	.129	-.0151	-19.4
1.50	14.43	0.539	0.1484	-0.058	0.089	-0.0152	-19.5
	16.50	.615	.1888	-.067	.051	-.0156	-19.6
	17.53	.651	.2111	-.071	.030	-.0163	-19.7
1.70	-2.04	-.128	.0308	.042	.370	-.0138	-18.4
	-1.02	-.088	.0277	.035	.356	-.0137	-18.5
	-.51	-.068	.0265	.032	.347	-.0136	-18.5
	.45	-.030	.0253	.026	.333	-.0135	-18.6
	.98	-.008	.0253	.023	.332	-.0135	-18.6
	2.08	.035	.0257	.016	.305	-.0132	-18.7
	4.11	.115	.0301	.002	.243	-.0127	-18.9
	6.16	.193	.0405	-.010	.207	-.0124	-19.1
	8.22	.268	.0560	-.021	.165	-.0123	-19.2
	10.27	.343	.0773	-.032	.132	-.0119	-19.3
	12.33	.416	.1034	-.042	.097	-.0118	-19.5
	14.39	.485	.1343	-.051	.061	-.0116	-19.6
	16.46	.552	.1702	-.056	.035	-.0115	-19.7
	17.49	.585	.1899	-.059	.017	-.0123	-19.8
1.90	-4.10	-.186	.0393	.046	.358	-.0122	-18.5
	-2.04	-.113	.0298	.035	.330	-.0120	-18.6
	-1.02	-.077	.0268	.030	.313	-.0115	-18.7
	-.49	-.059	.0257	.027	.305	-.0118	-18.7
	.45	-.025	.0244	.022	.290	-.0116	-18.8
	.98	-.005	.0242	.019	.282	-.0114	-18.8
	2.08	.033	.0247	.014	.266	- - -	-18.9
	4.10	.104	.0289	.002	.210	-.0105	-19.1
	6.15	.175	.0360	-.008	.166	-.0104	-19.2
	8.19	.241	.0517	-.018	.131	-.0103	-19.4
	10.25	.307	.0705	-.026	.100	-.0108	-19.5
	12.30	.372	.0939	-.034	.072	-.0099	-19.6
	14.36	.436	.1220	-.040	.041	-.0098	-19.7
	16.41	.497	.1543	-.045	.011	-.0100	-19.8
	17.44	.528	.1724	-.047	-.002	-.0100	-19.9

NACA

TABLE X.- CONCLUDED



(i) Nominal δ, -24°

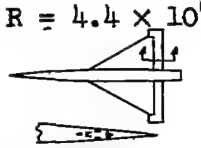
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.30	-0.342	0.0483	0.072	0.313	-0.0248	-23.1	0.90	-1.16	-0.202	0.0341	0.073	0.408	-0.0264	-22.6	1.50	12.39	0.452	0.1147	-0.043	0.171	-0.0173	-23.2
	-2.20	-.248	.0360	.066	.306	-.0266	-23.2		-.64	-.177	.0320	.071	.406	-.0267	-22.6		14.45	.531	.1489	-.055	.131	-.0174	-23.3
	-1.15	-.205	.0314	.065	.307	-.0279	-23.2		.33	-.135	.0294	.069	.405	-.0280	-22.6		16.53	.609	.1900	-.062	.102	-.0178	-23.4
	-.62	-.183	.0297	.065	.302	-.0283	-23.2		.85	-.102	.0283	.068	.401	-.0286	-22.6		17.96	.646	.2121	-.066	.097	-.0186	-23.5
	.46	-.140	.0266	.065	.302	-.0288	-23.2		2.02	-.052	.0260	.060	.367	-.0290	-22.7								
	.97	-.119	.0259	.063	.302	-.0296	-23.2		4.19	.065	.0276	.049	.324	-.0305	-22.9	1.70	-.51	-.076	.0304	.036	.380	-.0162	-22.4
	1.94	-.075	.0248	.061	.284	-.0311	-23.2		6.33	.184	.0380	.037	.284	-.0275	-23.0		.45	-.039	.0288	.030	.366	-.0160	-22.4
	4.04	.022	.0251	.056	.272	-.0332	-23.3		8.42	.301	.0598	.025	.260	-.0244	-23.1		.97	-.017	.0288	.027	.366	-.0160	-22.4
	6.22	.121	.0298	.051	.261	-.0338	-23.3		10.55	.411	.0906	.017	.249	-.0228	-23.1		2.08	.026	.0290	.020	.339	-.0158	-22.6
	8.33	.224	.0441	.044	.246	-.0333	-23.3		12.69	.523	.1325	.008	.250	-.0238	-23.1		4.10	.108	.0327	.006	.287	-.0152	-22.8
	10.44	.328	.0681	.041	.233	-.0340	-23.3										6.16	.186	.0427	-.006	.226	-.0148	-23.0
	12.31	.432	.1002	.038	.220	-.0345	-23.4	1.20	3.02	.051	.0336	.032	.414	-.0277	-22.4		8.22	.261	.0582	-.017	.199	-.0147	-23.1
	14.62	.539	.1507	.036	.211	-.0359	-23.4		4.17	.113	.0366	.020	.370	-.0272	-22.5		10.28	.335	.0798	-.027	.174	-.0143	-23.2
	16.75	.643	.1918	.038	.202	-.0374	-23.4		6.19	.219	.0484	.001	.335	-.0275	-22.7		12.34	.410	.1050	-.037	.138	-.0141	-23.3
	17.61	.697	.2192	.040	.204	-.0386	-23.4		8.26	.321	.0692	-.014	.328	-.0274	-22.7		14.39	.480	.1350	-.047	.097	-.0138	-23.5
									10.34	.430	.0969	-.030	.303	-.0275	-22.8		16.46	.547	.1712	-.054	.074	-.0138	-23.6
0.80	-4.33	-.343	.0509	.075	.347	-.0226	-22.9		12.41	.544	.1333	-.049	.269	-.0299	-22.9		17.49	.581	.1908	-.056	.054	-.0142	-23.6
	-2.21	-.242	.0363	.068	.330	-.0243	-22.9		14.50	.637	.1751	-.051	.243	-.0293	-23.0								
	-1.16	-.196	.0315	.066	.330	-.0256	-22.9									1.90	-4.09	-.194	.0439	.050	.391	-.0147	-22.4
	-.62	-.172	.0297	.064	.326	-.0260	-23.0	1.30	2.45	.038	.0343	.029	.406	-.0227	-22.4		-2.04	-.119	.0331	.039	.358	-.0142	-22.5
	.40	-.133	.0275	.064	.333	-.0272	-22.9		4.17	.117	.0385	.014	.346	-.0223	-22.6		-1.01	-.084	.0304	.034	.346	-.0142	-22.5
	.85	-.109	.0260	.063	.329	-.0276	-23.0		6.18	.213	.0503	-.002	.310	-.0226	-22.7		-.50	-.066	.0298	.031	.338	-.0141	-22.6
	1.93	-.068	.0250	.059	.318	-.0291	-23.0		8.25	.305	.0687	-.015	.296	-.0227	-22.8		.46	-.031	.0278	.025	.322	-.0140	-22.7
	4.14	.049	.0256	.051	.283	-.0309	-23.1		10.32	.405	.0947	-.031	.266	-.0226	-22.9		.97	-.012	.0274	.023	.312	-.0139	-22.7
	6.29	.158	.0343	.043	.263	-.0297	-23.1		12.38	.491	.1258	-.046	.223	-.0229	-23.0		2.07	.026	.0276	.017	.299	-.0137	-22.7
	8.42	.271	.0526	.034	.237	-.0285	-23.2		14.46	.582	.1643	-.057	.186	-.0246	-23.2		4.09	.098	.0312	.006	.230	-.0131	-23.0
	10.49	.378	.0789	.028	.218	-.0258	-23.3		16.54	.672	.2116	-.069	.152	-.0238	-23.3		6.15	.169	.0401	-.005	.194	-.0126	-23.1
	12.64	.492	.1182	.019	.204	-.0261	-23.3		17.57	.715	.2366	-.074	.130	-.0252	-23.3		8.20	.235	.0538	-.014	.162	-.0124	-23.2
	14.77	.604	.1646	.014	.195	-.0277	-23.3										10.25	.300	.0722	-.023	.138	-.0122	-23.3
	16.91	.716	.2213	.009	.195	-.0305	-23.3	1.50	2.09	.024	.0302	.024	.370	-.0187	-22.4		12.30	.367	.0952	-.031	.108	-.0118	-23.4
	17.96	.759	.2487	.009	.196	-.0310	-23.3		4.12	.114	.0345	.008	.296	-.0182	-22.7		14.35	.428	.1222	-.037	.072	-.0117	-23.6
									6.19	.204	.0456	-.006	.255	-.0180	-22.8		16.41	.491	.1546	-.042	.043	-.0117	-23.7
0.90	-4.36	-.358	.0554	.086	.426	-.0228	-22.6		8.25	.286	.0628	-.018	.234	-.0179	-22.9		17.44	.522	.1730	-.044	.029	-.0117	-23.7
	-2.22	-.253	.0397	.077	.417	-.0247	-22.6		10.32	.371	.0863	-.031	.206	-.0176	-23.0								

(j) Nominal δ, -28°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.31	-0.347	0.0527	0.073	0.343	-0.0252	-27.1	0.90	-4.35	-0.362	0.0599	0.087	0.448	-0.0234	-26.5	1.50	8.23	0.274	0.0621	-0.014	0.251	-0.0162	-26.9
	-2.21	-.255	.0403	.068	.331	-.0272	-27.1		-2.23	-.268	.0446	.080	.439	-.0256	-26.5		10.30	.360	.0858	-.026	.230	-.0160	-27.0
	-1.17	-.213	.0362	.067	.330	-.0285	-27.1		-1.18	-.215	.0392	.077	.443	-.0276	-26.5		12.37	.442	.1145	-.038	.204	-.0157	-27.1
	-.63	-.190	.0349	.066	.329	-.0290	-27.1		-.64	-.192	.0377	.075	.445	-.0261	-26.5		14.43	.519	.1480	-.050	.156	-.0158	-27.3
	.31	-.158	.0313	.066	.329	-.0302	-27.1		.31	-.149	.0344	.073	.440	-.0290	-26.5		16.49	.597	.1883	-.058	.132	-.0157	-27.4
	.83	-.132	.0307	.066	.331	-.0310	-27.1		.84	-.125	.0331	.072	.437	-.0299	-26.6		17.53	.634	.2112	-.062	.133	-.0162	-27.4
	1.89	-.089	.0292	.064	.326	-.0319	-27.1		1.92	-.069	.0316	.067	.422	-.0311	-26.6								
	4.07	.011	.0290	.059	.297	-.0343	-27.2		4.16	.050	.0322	.054	.372	-.0329	-26.8	1.70	.96	-.026	.0293	.031	.390	-.0145	-26.4
	6.21	.110	.0335	.054	.283	-.0351	-27.2		6.31	.169	.0419	.043	.325	-.0303	-26.9		2.07	.016	.0294	.024	.367	-.0144	-26.5
	8.33	.213	.0471	.047	.266	-.0348	-27.3		8.46	.289	.0619	.029	.282	-.0265	-27.0		4.15	.099	.0328	.010	.290	-.0138	-26.8
	10.43	.318	.0699	.042	.249	-.0344	-27.3		10.55	.399	.0919	.019	.268	-.0243	-27.1		6.16	.178	.0424	-.003	.242	-.0134	-26.9
	12.50	.423	.1016	.039	.237	-.0346	-27.3										8.21	.251	.0776	-.013	.217	-.0134	-27.0
	14.62	.538	.1432	.038	.230	-.0357	-27.4	1.20	4.16	.100	.0370	.024	.392	-.0240	-26.5		10.27	.325	.0783	-.023	.194	-.0132	-27.1
	16.75	.637	.1926	.041	.231	-.0382	-27.3		6.19	.207	.0483	.005	.346	-.0242	-26.6		12.33	.400	.1045	-.033	.170	-.0129	-27.2
	17.80	.686	.2199	.043	.234	-.0397	-27.3		8.25	.307	.0687	-.009	.339	-.0239	-26.7		14.38	.471	.1348	-.043	.146	-.0129	-27.4
									10.33	.417	.0974	-.025	.324	-.0239	-26.7		16.45	.538	.1706	-.050	.109	-.0125	-27.4
0.80	-4.33	-.353	.0537	.079	.386	-.0193	-26.8		12.41	.532	.1347	-.045	.288	-.0255	-26.8		17.48	.572	.1902	-.053	.088	-.0127	-27.5
	-2.22	-.256	.0393	.073	.374	-.0210	-26.8		14.50	.625	.1754	-.047	.261	-.0246	-26.9								
	-1.16	-.210	.0346	.071	.376	-.0223	-26.8									1.90	-2.04	-.129	.0372	.043	.390	-.0160	-26.4
	-.64	-.187	.0325	.070	.374	-.0227	-26.8	1.30	4.17	.105	.0410	.018	.369	-.0244	-26.5		-1.02	-.093	.0340	.037	.374	-.0159	-26.5
	.31	-.148	.0289	.069	.371	-.0236	-26.8		6.18	.201	.0519	.002	.330	-.0247	-26.6		-.50	-.075	.0327	.035	.368	-.0159	-26.5
	.83	-.125	.0290	.068	.372	-.0242	-26.8		8.25	.292	.0701	-.011	.308	-.0248	-26.7		.43	-.041	.0310	.029	.351	-.0157	-26.5
	1.95	-.072	.0271	.064	.358	-.0247	-26.9		10.32	.390	.0962	-.025	.294	-.0250	-26.8		.97	-.021	.0306	.027	.341	-.0156	-26.6
	4.11	.030	.0280	.057	.332	-.0268	-26.9		12.38	.481	.1274	-.039	.249	-.0259	-26.9		2.06	.017	.0306	.021	.323	-.0154	-26.6
	6.28	.140	.0360	.048	.303	-.0288	-27.0		14.45	.568	.1653	-.052	.218	-.0263	-27.1		4.14	.091	.0336	.009	.295	-.0147	-26.9
	8.36	.257	.0534	.037	.266	-.0290	-27.1		16.52	.661	.2117	-.064	.185	-.0256	-27.2		6.14	.160	.0421	-.001	.216	-.0148	-27.0
	10.48	.358	.0796	.033	.230	-.0287	-27.2		17.56	.701	.2366	-.068	.190	-.0272	-27.2		8.19	.227	.0553	-.011	.182	-.0140	-27.2
	12.61	.475	.1175	.024	.233	-.0287	-27.2										10.24	.291	.0735	-.019	.164	-.0139	-27.2
	14.75	.592	.1647	.018	.223	-.0238	-27.2	1.50	3.01	.056	.0318	.021	.359	-.0167	-26.5		12.30	.359	.0970	-.027	.142	-.0135	-27.3
	16.90	.700	.2198	.014	.228	-.0261	-27.2		4.16	.106	.0349	.012	.322	-.0165	-26.6		14.35	.424	.1239	-.034	.099	-.0131	-27.5
	17.97	.752	.2504	.012	.226	-.0266	-27.2		6.18	.192	.0454	-.002	.274	-.0162	-26.8		16.41	.486	.1568	-.039	.072	-.0131	-27.6
																	17.44	.517	.1743	-.041	.056	-.0130	-27.6

NACA

TABLE XI.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 5.5-PERCENT AREA TRIANGULAR HORN BALANCE ON THE RIGHT WING PANEL AND A 6.4-PERCENT-AREA RECTANGULAR HORN BALANCE ON THE LEFT WING PANEL. DATA FOR 6.4-PERCENT-AREA RECTANGULAR HORN BALANCE FLAP DEFLECTED. $R = 4.4 \times 10^6$.



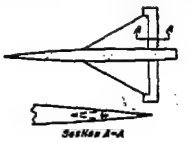
(a) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.13	-0.184	0.0158	-0.006	-0.043	0.0027	1.9
	-2.08	-.085	.0099	-.001	-.033	.0021	1.9
	-1.05	-.037	.0081	-.004	-.022	.0020	1.9
	-.02	-.013	.0077	-.005	-.017	.0020	1.9
	.49	.031	.0079	-.008	-.006	.0018	1.9
	1.03	.056	.0089	-.008	-.000	.0018	2.0
	2.10	.105	.0108	-.012	.011	.0015	2.0
	4.19	.204	.0182	-.019	.018	.0009	2.0
	6.30	.300	.0326	-.024	.001	.0009	2.0
	8.41	.402	.0548	-.030	-.006	.0001	1.9
	10.52	.508	.0867	-.033	-.001	-.0003	1.9
	12.65	.620	.1292	-.034	-.036	-.0007	1.9
	14.78	.730	.1797	-.037	-.051	-.0011	1.8
	16.92	.860	.2451	-.044	-.059	-.0028	1.8
	17.98	.911	.2769	-.044	-.063	-.0083	1.8
0.80	-4.23	-.195	.0173	.009	-.044	-.0089	1.8
	-2.10	-.091	.0100	0	-.040	-.0084	1.8
	-1.02	-.038	.0082	-.004	-.026	-.0083	1.9
	-.54	-.012	.0073	-.006	-.019	-.0083	1.9
	.51	.039	.0079	-.009	-.004	-.0084	1.9
	1.04	.061	.0086	-.010	.003	-.0021	2.0
	2.11	.115	.0113	-.014	.018	-.0080	2.0
	4.24	.220	.0204	-.023	.017	-.0015	2.0
	6.35	.320	.0362	-.029	.008	-.0011	2.0
	8.46	.428	.0631	-.034	-.008	-.0015	1.9
	10.62	.533	.0987	-.035	-.039	-.0006	1.8
	12.73	.643	.1431	-.043	-.065	-.0004	1.8
	14.88	.758	.1976	-.051	-.076	-.0001	1.7
	17.03	.873	.2619	-.061	-.107	-.0082	1.7
	18.37	.922	.2949	-.068	-.120	-.0023	1.6
0.90	-4.24	-.207	.0186	.013	-.053	-.0033	1.8
	-2.11	-.098	.0097	.003	-.049	-.0029	1.8
	-1.03	-.041	.0074	-.004	-.032	-.0028	1.9
	-.49	-.013	.0069	-.006	-.024	-.0029	1.9
	.50	.038	.0073	-.010	-.004	-.0029	1.9
	1.06	.066	.0080	-.012	.008	-.0028	2.0
	2.13	.126	.0112	-.018	.029	-.0025	2.0
	4.26	.236	.0219	-.029	.012	-.0008	2.0
0.90	6.39	0.339	0.0396	-0.035	-0.017	0.0011	1.9
	8.51	.447	.0670	-.041	-.038	.0014	1.8
	10.67	.559	.1049	-.050	-.069	.0007	1.7
1.20	-4.13	-.214	.0260	.035	.005	.0023	2.0
	-2.06	-.104	.0163	.015	-.025	.0019	1.9
	-1.01	-.051	.0135	.006	-.034	.0017	1.8
	-.47	-.023	.0132	.001	-.037	.0015	1.8
	.48	.025	.0133	-.007	-.044	.0012	1.8
	1.01	.053	.0142	-.012	-.051	.0011	1.8
	2.05	.107	.0170	-.021	-.061	.0008	1.7
	4.13	.216	.0271	-.041	-.090	.0002	1.6
	6.19	.326	.0444	-.060	-.121	.0002	1.5
	8.26	.436	.0712	-.078	-.144	.0010	1.4
	10.34	.548	.1080	-.094	-.166	.0009	1.4
	12.43	.680	.1514	-.120	-.200	.0011	1.2
1.30	-4.12	-.198	.0281	.031	-.025	.0013	1.9
	-2.06	-.097	.0189	.014	-.010	.0011	1.9
	-1.01	-.048	.0159	.006	-.022	.0012	1.9
	-.47	-.022	.0157	.001	-.027	.0010	1.9
	.47	.022	.0158	-.005	-.034	.0011	1.8
	1.01	.048	.0167	-.010	-.043	.0011	1.8
	2.06	.099	.0197	-.019	-.054	.0011	1.8
	4.12	.198	.0288	-.036	-.083	.0008	1.6
	6.18	.298	.0448	-.052	-.112	.0006	1.5
	8.25	.396	.0683	-.067	-.135	.0004	1.5
	10.32	.490	.0966	-.082	-.168	.0001	1.3
	12.39	.581	.1353	-.096	-.202	-.0008	1.2
	14.46	.670	.1787	-.110	-.234	-.0009	1.1
	16.53	.758	.2290	-.122	-.268	-.0009	1.0
1.50	-4.12	-.179	.0259	.027	.003	.0007	2.0
	-2.06	-.087	.0173	.012	-.005	.0007	1.9
	-1.02	-.042	.0149	.004	-.018	.0007	1.9
	-.48	-.020	.0142	.001	-.022	.0009	1.9
	.48	.022	.0143	-.005	-.032	.0009	1.8
	1.01	.046	.0151	-.010	-.040	.0010	1.8
	2.05	.093	.0177	-.017	-.054	.0010	1.7
	4.12	.183	.0266	-.032	-.081	.0010	1.6
1.50	6.18	0.273	0.0413	-0.047	-0.109	0.0011	1.5
	8.24	.363	.0636	-.059	-.134	.0010	1.4
	10.31	.446	.0928	-.078	-.161	.0010	1.3
	12.38	.527	.1296	-.084	-.187	.0012	1.2
	14.44	.605	.1680	-.095	-.217	.0012	1.1
	16.51	.682	.2063	-.105	-.248	.0008	1.0
	17.53	.718	.2302	-.109	-.260	.0008	1.0
1.70	-4.11	-.161	.0228	.024	.026	.0004	2.1
	-2.05	-.079	.0162	.010	0	.0006	2.0
	-1.00	-.039	.0143	.004	-.012	.0007	1.9
	-.49	-.018	.0139	.001	-.018	.0008	1.9
	.47	.019	.0140	-.005	-.029	.0010	1.8
	1.01	.042	.0145	-.009	-.036	.0010	1.8
	2.04	.083	.0158	-.015	-.049	.0011	1.8
	4.10	.165	.0251	-.028	-.076	.0014	1.7
	6.16	.244	.0389	-.041	-.102	.0017	1.6
	8.22	.340	.0576	-.052	-.125	.0018	1.5
	10.28	.393	.0818	-.062	-.148	.0019	1.4
	12.33	.466	.1106	-.073	-.173	.0021	1.3
	14.39	.536	.1453	-.081	-.202	.0023	1.2
	16.45	.608	.1836	-.088	-.227	.0024	1.1
	17.48	.636	.2054	-.091	-.239	.0021	1.0
1.90	-4.09	-.145	.0237	.020	.026	.0003	2.1
	-2.04	-.071	.0166	.009	.001	.0005	2.0
	-1.00	-.035	.0145	.004	-.010	.0007	1.9
	-.48	-.017	.0143	.001	-.016	.0007	1.9
	.47	.018	.0145	-.004	-.027	.0008	1.8
	.99	.037	.0149	-.007	-.033	.0009	1.8
	2.4	.074	.0167	-.013	-.045	.0010	1.8
	4.10	.148	.0243	-.024	-.070	.0013	1.7
	6.15	.217	.0365	-.033	-.095	.0016	1.6
	8.19	.283	.0532	-.043	-.119	.0018	1.5
	10.25	.351	.0748	-.052	-.136	.0020	1.4
	12.30	.417	.1009	-.060	-.161	.0023	1.3
	14.35	.479	.1313	-.067	-.184	.0025	1.3
	16.41	.539	.1662	-.073	-.208	.0026	1.2
	17.43	.571	.1863	-.074	-.221	.0025	1.1

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.20	-0.203	0.0172	0.014	-0.030	-0.0018	0.1
	-2.13	-.106	.0107	.007	-.027	-.0024	.1
	-1.03	-.058	.0084	.004	-.017	-.0026	.1
	-.49	-.034	.0078	.003	-.010	-.0026	.1
	.47	.012	.0078	0	.001	-.0027	.1
	1.00	.036	.0084	0	.007	-.0030	.1
	2.06	.084	.0100	-.003	.019	-.0033	.1
	4.18	.184	.0165	-.010	.030	-.0037	.1
	6.28	.282	.0300	-.016	.018	-.0041	.1
	8.39	.385	.0518	-.022	.010	-.0038	.1
	10.49	.486	.0823	-.026	-.005	-.0044	0
	12.62	.601	.1241	-.027	-.019	-.0049	0
	14.73	.709	.1732	-.029	-.033	-.0038	0
	16.89	.814	.2300	-.031	-.040	-.0066	0
0.80	-4.23	-.216	.0192	.018	-.026	-.0016	0
	-2.11	-.110	.0108	.010	-.026	-.0022	0
	-1.04	-.059	.0085	.006	-.016	-.0023	0
	-.50	-.034	.0079	.004	-.008	-.0024	0
	.47	.015	.0078	0	.006	-.0026	.1
	1.01	.040	.0083	-.001	.015	-.0026	.1
	2.10	.093	.0103	-.005	.030	-.0028	.1
	4.21	.195	.0179	-.014	.036	-.0033	.2
	6.33	.299	.0334	-.020	.026	-.0030	.1
	8.45	.406	.0590	-.027	.009	-.0034	.1
	10.56	.509	.0911	-.028	-.016	-.0031	0
	12.69	.612	.1345	-.030	-.035	-.0035	0
	14.82	.729	.1867	-.033	-.053	-.0040	0
	16.95	.834	.2473	-.032	-.077	-.0062	-.1
	18.08	.888	.2814	-.034	-.089	-.0052	-.1
0.90	-4.25	-.229	.0206	.023	-.032	-.0015	0
	-2.12	-.121	.0107	.018	-.041	-.0021	0
	-1.04	-.063	.0078	.007	-.023	-.0022	0
	.51	-.035	.0071	.005	-.013	-.0024	0
	.49	.016	.0070	0	.007	-.0025	.1
	1.02	.044	.0071	-.008	.018	-.0027	.1
	2.12	.102	.0095	-.008	.036	-.0027	.2
	4.24	.212	.0192	-.015	.041	-.0031	.2
0.90	6.37	0.320	0.0346	-0.026	0.007	-0.0038	0.1
	8.51	.431	.0636	-.034	-.017	-.0036	0
	10.64	.532	.0999	-.039	-.047	-.0032	0
1.20	-4.12	-.221	.0265	.040	.056	-.0003	.3
	-2.06	-.112	.0167	.020	.025	-.0008	.1
	-1.02	-.059	.0142	.011	.015	-.0011	.1
	-.48	-.031	.0135	.007	.011	-.0012	.1
	.47	.017	.0133	-.002	.000	-.0014	.1
	1.00	.046	.0141	-.007	-.003	-.0015	0
	2.05	.097	.0164	-.018	-.010	-.0018	0
	4.11	.206	.0259	-.035	-.036	-.0024	0
	6.18	.315	.0427	-.054	-.070	-.0026	-.1
	8.25	.422	.0675	-.071	-.096	-.0021	-.2
	10.32	.527	.0996	-.087	-.120	-.0022	-.3
	12.39	.653	.1452	-.118	-.164	-.0029	-.4
1.30	-4.12	-.205	.0286	.036	.063	-.0011	.3
	-2.06	-.102	.0191	.018	.031	-.0012	.2
	-1.02	-.053	.0164	.010	.018	-.0011	.1
	-.49	-.029	.0158	.006	.014	-.0013	.1
	.43	.016	.0153	-.008	.003	-.0016	.1
	1.00	.042	.0168	-.006	-.000	-.0014	.1
	2.05	.091	.0193	-.014	-.010	-.0013	0
	4.12	.191	.0278	-.031	-.039	-.0014	0
	6.18	.290	.0434	-.047	-.070	-.0016	-.1
	8.25	.387	.0664	-.068	-.094	-.0018	-.2
	10.32	.481	.0964	-.077	-.125	-.0022	-.3
	12.39	.572	.1328	-.090	-.158	-.0027	-.4
	14.46	.659	.1755	-.104	-.191	-.0034	-.6
	16.52	.746	.2249	-.116	-.223	-.0047	-.7
1.50	-4.11	-.186	.0264	.031	.060	-.0013	.3
	-2.05	-.092	.0174	.016	.030	-.0011	.2
	-1.01	-.047	.0150	.008	.017	-.0011	.1
	-.48	-.024	.0144	.004	.010	- -	.1
	.47	.016	.0143	-.002	.002	-.0011	.1
	1.00	.040	.0150	-.006	-.004	-.0010	0
	2.05	.086	.0173	-.014	-.018	-.0011	0
1.50	4.11	0.177	0.0258	-0.029	-0.046	-0.0011	0
	6.17	.266	.0405	-.043	-.074	-.0010	-.1
	8.23	.352	.0611	-.056	-.102	-.0010	-.2
	10.29	.434	.0876	-.068	-.126	-.0009	-.3
	12.35	.514	.1199	-.080	-.154	-.0008	-.4
	14.41	.592	.1587	-.091	-.182	-.0009	-.6
	16.47	.668	.2082	-.101	-.212	-.0016	-.7
	17.50	.706	.2353	-.105	-.224	-.0025	-.7
1.70	-4.10	-.167	.0253	.027	.059	-.0012	.3
	-2.05	-.084	.0169	.014	.032	-.0008	.2
	-1.00	-.043	.0148	.006	.018	-.0007	.1
	-.48	-.022	.0142	.004	.011	-.0006	.1
	.47	.015	.0141	-.002	.000	-.0004	.1
	1.00	.037	.0146	-.005	-.005	-.0004	0
	2.04	.077	.0165	-.012	-.018	-.0003	0
	4.10	.159	.0284	-.025	-.044	-.0001	0
	6.16	.240	.0380	-.037	-.073	.0001	-.1
	8.21	.315	.0563	-.048	-.094	.0002	-.2
	10.26	.389	.0801	-.059	-.119	.0005	-.3
	12.32	.461	.1091	-.069	-.146	.0006	-.4
	14.37	.529	.1422	-.077	-.172	.0007	-.5
	16.43	.597	.1809	-.084	-.196	.0005	-.6
	17.46	.630	.2022	-.087	-.207	.0001	-.7
1.90	-4.10	-.150	.0243	.022	.052	-.0009	.2
	-2.04	-.076	.0161	.011	.027	-.0006	.2
	-.99	-.039	.0148	.005	.014	-.0004	.1
	-.47	-.020	.0144	.003	.006	-.0004	.1
	.47	.013	.0143	-.002	-.001	-.0005	0
	1.00	.031	.0145	-.004	-.007	-.0004	0
	2.04	.070	.0163	-.010	-.019	-.0002	0
	4.09	.143	.0234	-.021	-.044	.0000	0
	6.14	.214	.0333	-.031	-.068	.0004	-.1
	8.20	.280	.0518	-.040	-.090	.0006	-.2
	10.25	.348	.0733	-.049	-.111	.0006	-.3
	12.30	.411	.0986	-.058	-.137	.0010	-.4
	14.36	.475	.1290	-.064	-.160	.0011	-.5
	16.41	.535	.1634	-.069	-.183	.0012	-.6
	17.44	.563	.1822	-.070	-.193	.0013	-.6

TABLE XI.- CONTINUED



(c) Nominal δ, -2°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.21	-0.223	0.0187	0.022	-0.011	-0.0048	-2.0	0.90	6.35	0.298	0.0339	-0.018	0.041	-0.0064	-1.8	1.50	6.17	0.259	0.0392	-0.039	-0.037	-0.0023	-2.1
	-2.18	-.125	.0107	.015	-.014	-.0034	-2.0		8.48	.408	.0605	-.025	.014	-.0067	-1.9		8.23	.344	.0593	-.058	-.064	-.0023	-2.2
	-1.05	-.077	.0082	.012	-.006	-.0036	-2.0		10.62	.516	.0960	-.035	-.011	-.0066	-2.0		10.29	.427	.0856	-.065	-.091	-.0023	-2.3
	-.52	-.054	.0074	.011	-.002	-.0036	-2.0										12.35	.507	.1171	-.077	-.119	-.0023	-2.4
	.45	-.010	.0070	.009	.011	-.0036	-1.9	1.20	-4.12	-.232	.0281	.046	.110	-.0026	-1.6		14.41	.584	.1548	-.087	-.147	-.0022	-2.5
	1.03	.014	.0071	.008	.017	-.0037	-1.9		-2.06	-.122	.0177	.026	.079	-.0030	-1.7		16.47	.662	.1976	-.097	-.176	-.0026	-2.6
	2.04	.063	.0086	.005	.030	-.0060	-1.9		-1.02	-.069	.0146	.016	.068	-.0031	-1.7		17.50	.700	.2215	-.101	-.186	-.0034	-2.7
	4.16	.164	.0148	-.003	.044	-.0066	-1.9		-.49	-.041	.0137	.012	.062	-.0032	-1.7								
	6.27	.262	.0283	-.009	.040	-.0068	-1.9		.52	.031	.0135	.002	.050	-.0034	-1.8	1.70	-4.10	-.173	.0260	.030	.091	-.0026	-1.6
	8.37	.359	.0496	-.015	.028	-.0062	-1.9		1.00	.037	.0141	-.002	.047	-.0036	-1.8		-2.05	-.090	.0173	.017	.065	-.0023	-1.7
	10.48	.469	.0796	-.018	.011	-.0067	-1.9		2.05	.090	.0162	-.011	.037	-.0039	-1.8		-1.01	-.050	.0150	.011	.051	-.0022	-1.8
	12.61	.576	.1200	-.020	-.003	-.0069	-2.0		4.12	.196	.0251	-.030	.014	-.0046	-1.9		-.48	-.028	.0143	.007	.044	-.0021	-1.8
	14.73	.683	.1673	-.023	-.016	-.0075	-2.0		6.18	.304	.0413	-.048	-.017	-.0050	-2.0		.47	.011	.0140	.001	.030	-.0020	-1.8
	16.87	.816	.2318	-.032	-.020	-.0037	-2.0		8.25	.411	.0656	-.065	-.045	-.0042	-2.1		.99	.031	.0144	-.008	.025	-.0019	-1.9
	17.93	.865	.2627	-.032	-.026	-.0038	-2.0		10.32	.517	.0971	-.081	-.067	-.0042	-2.2		2.04	.072	.0162	-.009	.012	-.0018	-1.9
									12.39	.628	.1390	-.097	-.089	-.0046	-2.2		4.10	.154	.0235	-.028	-.015	-.0016	-2.0
0.80	-4.25	-.237	.0214	.026	-.007	-.0047	-2.0										6.15	.233	.0366	-.034	-.043	-.0013	-2.1
	-2.13	-.133	.0118	.018	-.018	-.0035	-2.0	1.30	-4.12	-.213	.0227	.040	.108	-.0028	-1.6		8.21	.308	.0547	-.045	-.065	-.0012	-2.2
	-1.07	-.082	.0090	.014	-.008	-.0037	-2.0		-2.06	-.189	.0198	.023	.078	-.0029	-1.7		10.26	.382	.0781	-.056	-.090	-.0010	-2.3
	-.53	-.057	.0082	.013	-.002	-.0037	-2.0		-1.03	-.061	.0168	.014	.063	-.0026	-1.7		12.32	.456	.1066	-.066	-.117	-.0008	-2.4
	.50	-.008	.0071	.010	.012	-.0038	-1.9		-.49	-.036	.0160	.010	.058	-.0029	-1.7		14.37	.523	.1398	-.075	-.142	-.0006	-2.5
	1.03	.016	.0078	.008	.021	-.0038	-1.9		.52	.010	.0158	.002	.045	-.0028	-1.8		16.43	.598	.1779	-.082	-.167	-.0006	-2.6
	2.07	.070	.0092	.003	.036	-.0060	-1.9		1.00	.035	.0163	-.002	.042	-.0029	-1.8		17.46	.626	.1991	-.084	-.177	-.0009	-2.6
	4.19	.176	.0162	-.006	.047	-.0064	-1.8		2.05	.083	.0186	-.010	.030	-.0030	-1.8								
	6.31	.276	- - -	-.012	.040	-.0066	-1.8		4.12	.183	.0271	-.026	.005	-.0032	-1.9	1.90	-4.10	-.134	.0242	.025	.075	-.0023	-1.7
	8.43	.383	.0553	-.018	.023	-.0062	-1.9		6.18	.281	.0421	-.043	-.024	-.0034	-2.0		-2.04	-.080	.0172	.014	.050	-.0020	-1.8
	10.55	.482	.0871	-.021	-.000	-.0059	-2.0		8.25	.379	.0647	-.058	-.051	-.0034	-2.1		-1.01	-.044	.0152	.009	.038	-.0019	-1.8
	12.68	.594	.1298	-.029	-.015	-.0058	-2.0		10.32	.473	.0940	-.072	-.081	-.0038	-2.3		-.49	-.025	.0146	.006	.032	-.0018	-1.8
	14.81	.708	.1815	-.036	-.029	-.0063	-2.0		12.39	.563	.1297	-.086	-.114	-.0043	-2.4		.46	.010	.0144	0	.030	-.0018	-1.9
	16.95	.821	.2426	-.045	-.051	- - -	-2.1		14.45	.651	.1717	-.099	-.147	-.0048	-2.5		.99	.027	.0146	-.002	.014	-.0017	-1.9
	18.01	.872	.2752	-.048	-.062	-.0080	-2.1		16.53	.736	.2205	-.111	-.178	-.0059	-2.6		2.04	.069	.0161	-.006	.002	-.0016	-1.9
																	4.09	.137	.0230	-.018	-.021	-.0013	-2.0
0.90	-4.28	-.251	.0223	.032	.000	-.0047	-2.0	1.50	-4.11	-.191	.0276	.035	.097	-.0027	-1.6		6.14	.207	.0345	-.029	-.044	-.0011	-2.1
	-2.14	-.145	.0118	.023	-.026	-.0050	-2.0		-2.05	-.099	.0182	.019	.069	-.0026	-1.7		8.20	.274	.0507	-.038	-.066	-.0008	-2.2
	-1.09	-.088	.0087	.017	-.012	-.0060	-2.0		-1.01	-.054	.0155	.012	.055	-.0026	-1.7		10.25	.344	.0723	-.047	-.086	-.0007	-2.3
	-.54	-.060	.0075	.015	-.000	-.0060	-2.0		-.48	-.030	.0147	.008	.048	-.0025	-1.8		12.30	.407	.0962	-.055	-.110	-.0003	-2.4
	.46	-.009	.0069	.011	.022	-.0060	-1.9		.47	.012	.0148	.001	.035	-.0025	-1.8		14.35	.469	.1269	-.061	-.133	-.0008	-2.5
	1.05	.020	.0072	.008	.034	-.0060	-1.9		1.00	.034	.0149	-.003	.031	-.0024	-1.8		16.42	.530	.1616	-.066	-.155	-.0001	-2.5
	2.09	.078	.0092	.002	.052	-.0063	-1.8		2.05	.079	.0170	-.010	.018	-.0024	-1.9		17.45	.561	.1808	-.068	-.166	.0001	-2.6
	4.21	.198	.0176	-.010	.065	-.0066	-1.8		4.11	.170	.0252	-.025	-.010	-.0024	-2.0								

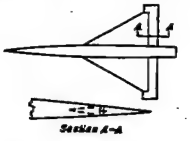
(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.23	-0.245	0.0217	0.089	0.006	-0.0085	-3.8	0.90	6.34	0.273	0.0319	-0.006	0.069	-0.0104	-3.7	1.50	4.11	0.164	0.0252	-0.022	0.083	-0.0041	-3.8
	-2.13	-.148	.0130	.023	.000	-.0093	-3.9		8.47	.377	.0568	-.012	.074	-.0108	-3.6		6.16	.251	.0387	-.036	-.004	-.0041	-3.9
	-1.06	-.101	.0101	.020	.005	-.0095	-3.8		10.61	.487	.0986	-.020	.068	-.0103	-3.7		8.22	.337	.0587	-.049	-.031	-.0040	-4.0
	-.55	-.076	.0094	.019	.010	-.0093	-3.8										10.28	.420	.0846	-.062	-.059	-.0040	-4.1
	.42	-.032	.0082	.017	.022	-.0095	-3.8	1.20	-4.12	-.244	.0299	.052	.166	.0055	-3.3		12.34	.500	.1157	-.073	-.088	-.0039	-4.2
	1.02	-.006	.0081	.016	.028	-.0095	-3.8		-2.06	-.134	.0187	.039	.138	.0057	-3.4		14.40	.579	.1528	-.084	-.115	-.0040	-4.3
	2.08	.045	.0093	.013	.038	-.0097	-3.8		-1.02	-.079	.0155	.022	.129	.0057	-3.4		16.46	.654	.1953	-.093	-.142	-.0045	-4.4
	4.15	.143	.0143	.005	.056	-.0104	-3.7		-.49	-.050	.0144	.017	.122	.0058	-3.4		17.49	.691	.2187	-.097	-.158	-.0055	-4.4
	6.25	.241	.0260	-.001	.057	-.0105	-3.7		.51	0	.0140	.008	.106	.0057	-3.5								
	8.36	.342	.0459	-.007	.046	-.0111	-3.8		1.04	.027	.0144	.004	.100	.0061	-3.5	1.70	-4.14	-.178	.0268	.033	.119	-.0042	-3.4
	10.47	.446	.0753	-.011	.031	-.0109	-3.8		2.05	.079	.0165	-.005	.090	.0063	-3.5		-2.05	-.095	.0178	.020	.093	-.0039	-3.5
	12.59	.555	.1145	-.013	.019	-.0110	-3.8		4.11	.189	.0249	-.025	.063	.0070	-3.6		-1.01	-.055	.0154	.014	.079	-.0037	-3.6
	14.73	.670	.1640	-.015	.008	-.0111	-3.8		6.18	.295	.0404	-.043	.034	.0075	-3.7		-.48	-.032	.0145	.010	.071	-.0030	-3.6
	16.84	.781	.2209	-.016	-.004	-.0127	-3.9		8.25	.405	.0644	-.060	.001	.0066	-3.8		.99	.026	.0146	.001	.053	-.0034	-3.7
	17.90	.831	.2520	-.015	-.014	-.0128	-3.9		10.32	.512	.0960	-.076	-.019	.0067	-3.9		2.04	.067	.0163	-.006	.041	-.0034	-3.7
									12.39	.617	.1363	-.090	.008	.0116	-3.8		4.10	.149	.0236	-.019	.011	-.0031	-3.8
0.80	-4.26	-.257	.0236	.035	.018	-.0082	-3.8										6.15	.227	.0361	-.031	-.015	-.0028	-3.9
	-2.15	-.155	.0134	.027	-.001	-.0095	-3.9	1.30	-4.13	-.222	.0315	.045	.154	-.0043	-3.3		8.20	.303	.0537	-.049	-.039	-.0027	-4.0
	-1.09	-.104	.0102	.023	.004	-.0096	-3.8		-2.06	-.120	.0209	.027	.123	-.0049	-3.4		10.26	.378	.0770	-.053	-.065	-.0025	-4.1
	-.55	-.077	.0090	.022	.011	-.0097	-3.8		-1.02	-.070	.0177	.019	.112	-.0049	-3.4		12.31	.453	.1056	-.063	-.091	-.0024	-4.2
	.47	-.032	.0080	.019	.026	-.0097	-3.8		-.50	-.045	.0167	.015	.105	-.0050	-3.5		14.36	.521	.1383	-.071	-.115	-.0023	-4.3
	1.01	-.005	.0082	.017	.033	-.0096	-3.8		.51	.002	.0162	.007	.090	-.0049	-3.5		16.42	.589	.1765	-.078	-.138	-.0023	-4.4
	2.09	.049	.0094	.013	.046	-.0097	-3.7		1.03	.027	.0167	.003	.086	-.0049	-3.5		17.45	.622	.1973	-.081	-.149	-.0026	-4.4
	4.18	.158	.0154	.003	.064	-.0102	-3.7		2.05	.075	.0189	-.005	.075	-.0050	-3.6								
	6.29	.258	.0290	.004	.062	-.0099	-3.7		4.12	.176	.0271	-.022	.046	-.0050	-3.7	1.90	-4.09	-.139	.0256	.028	.103	-.0035	-3.5
	8.41	.359	.0525	.008	.040	-.0103	-3.7		6.18	.275	.0418	-.039	.016	-.0055	-3.8		-2.04	-.084	.0178	.017	.079	-.0032	-3.6
	10.53	.460	.0840	.013	.024	-.0094	-3.8		8.25	.370	.0638	-.055	.010	-.0054	-3.9		-1.00	-.049	.0155	.011	.066	-.0031	-3.6
	12.66	.575	.1264	.021	.012	-.0090	-3.8		10.31	.465	.0928	-.069	.041	-.0058	-4.0		-.48	-.028	.0148	.008	.059	-.0030	-3.6
	14.80	.690	.1775	.029	-.001	-.0096	-3.9		12.38	.557	.1283	-.082	.075	-.0063	-4.1		.51	.006	.0147	.003	.047	-.0027	-3.7
	16.93	.801	.2366	.036	-.019	- - -	-3.9		14.45	.643	.1697	-.094	.106	-.0069	-4.2		.99	.024	.0148	0	.041	-.0026	-3.7
	18.00	.857	.2708	.040	-.030	-.0113	-3.9		16.52	.730	.2183	-.106	.137	-.0081	-4.3		2.04	.061	.0162	-.005	.029	-.0026	-3.7
									17.56	.770	.2445	-.111	.149	-.0092	-4.4		4.09	.133	.0227	-.016	.002	-.0025	-3.8
0.90	-4.29	-.272	.0258	.042	.030	-.0080	-3.8										6.15	.203	.0340	-.026	-.022	-.0023	-3.9
	-2.16	-.167	.0138	.034	-.004	-.0099	-3.9	1.50	-4.11	-.198	.0286	.036	.133	-.0045	-3.4		8.20	.269	.0499	-.035	-.044	-.0021	-4.0
	-1.10	-.111	.0099	.028	.005	-.0100	-3.8		-2.05	-.107	.0189	.023	.104	-.0045	-3.5		10.25	.336	.0706	-.044	-.065	-.0018	-4.1
	-.57	-.083	.0088	.026	.020	-.0102	-3.8		-1.02	-.016	.0160	.016	.098	-.0044	-3.5		12.30	.402	.0957	-.052	-.088	-.0018	-4.2
	.42	-.032	.0078	.022	.048	-.0101	-3.7		-.49	-.037	.0150	.002	.083	-.0042	-3.5		14.36	.469	.1253	-.059	-.110	-.0015	-4.3
	.98	-.003	.0080	.020	.059	-.0102	-3.7		.51	.005	.0146	.005	.070	-.0041	-3.6		16.41	.526	.1598	-.063	-.130	-.0015	-4.4
	2.12	.056	.0094	.013	.073	-.0102	-3.6		.99	.028	.0151	.001	.056	-.0041	-3.6								
	4.21	.169	.0168	.001	.083	-.0107	-3.6		2.05	.072	.0172	-.006	.054	-.0041	-3.7								

NACA

[redacted]

TABLE XI.- CONTINUED



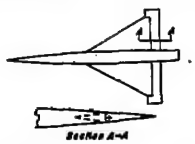
(e) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.25	-.0278	0.0272	0.044	0.051	-0.0130	-7.7	0.90	6.33	0.249	0.0329	0.008	0.153	-0.0164	-7.4	1.50	2.05	0.061	0.0183	0.001	0.126	-0.0073	-7.4
	-2.16	-.182	.0168	.038	.037	-.0162	-7.8		8.45	.346	.0554	.004	.165	-.0163	-7.4		4.11	.251	.0295	-.014	.092	-.0073	-7.5
	-1.10	-.135	.0133	.036	.035	-.0164	-7.8		10.58	.465	.0910	-.007	.169	-.0136	-7.3		6.17	.240	.0386	-.028	.061	-.0071	-7.6
	-.58	-.112	.0119	.035	.036	-.0166	-7.8		12.72	.569	.1325	-.017	.151	-.0154	-7.4		8.22	.324	.0577	-.041	.033	-.0071	-7.7
	.39	-.068	.0102	.033	.047	-.0168	-7.8										10.28	.408	.0830	-.054	.002	-.0070	-7.8
	.92	-.043	.0098	.032	.052	-.0168	-7.7	1.20	4.12	-.269	.0348	.068	.252	-.0113	-7.0		12.34	.488	.1135	-.066	-.027	-.0068	-8.0
	2.03	.005	.0101	.028	.059	-.0169	-7.7		-2.06	-.154	.0223	.045	.238	-.0113	-7.0		14.40	.565	.1497	-.076	-.055	-.0069	-8.1
	4.18	.109	.0141	.021	.073	-.0171	-7.7		-1.02	-.100	.0187	.035	.236	-.0111	-7.0		16.47	.643	.1920	-.086	-.081	-.0073	-8.2
	6.23	.205	.0225	.016	.082	-.0174	-7.7		-.51	-.072	.0173	.030	.232	-.0112	-7.0		17.50	.681	.2156	-.090	-.090	-.0080	-8.2
	8.17	- - -	- - -	.009	.075	-.0178	-7.7		.50	-.021	.0164	.021	.222	-.0111	-7.1								
	10.22	- - -	- - -	.005	.062	-.0181	-7.7		1.03	.007	.0166	.016	.214	-.0112	-7.1	1.70	-4.10	-.187	.0698	.040	.187	-.0071	-7.1
	12.29	- - -	- - -	.002	.053	-.0181	-7.7		2.10	.062	.0180	.006	.188	-.0111	-7.2		-2.05	-.106	.0402	.027	.159	-.0068	-7.2
	14.34	- - -	- - -	0	.056	-.0181	-7.8		4.11	.169	.0254	.013	.158	-.0116	-7.3		-1.02	-.064	.0174	.020	.146	-.0066	-7.3
	16.41	.746	.2110	-.001	.042	-.0196	-7.8		6.18	.273	.0408	.032	.185	-.0116	-7.4		-.49	-.042	.0165	.016	.138	-.0064	-7.3
	17.45	.800	.2424	0	.036	-.0800	-7.8		8.25	.383	.0632	.049	.098	-.0111	-7.5		.51	-.004	.0159	.010	.126	-.0063	-7.4
									10.32	.491	.0937	.067	.068	-.0109	-7.6		1.04	.018	.0161	.007	.119	-.0062	-7.4
0.80	-4.28	-.285	.0291	.049	.070	-.0138	-7.7		12.39	.594	.1318	.079	.080	-.0163	-7.6		2.04	.058	.0174	0	.105	-.0061	-7.5
	-2.17	-.184	.0176	.041	.064	-.0149	-7.7										4.10	.139	.0241	.012	.071	-.0058	-7.6
	-1.11	-.137	.0137	.039	.041	-.0162	-7.7	1.30	-4.13	-.237	.0355	.055	.245	-.0091	-7.0		6.15	.217	.0359	.025	.041	-.0054	-7.7
	-.58	-.114	.0125	.038	.047	-.0164	-7.7		-2.06	-.135	.0240	.037	.220	-.0091	-7.1		8.21	.293	.0528	.036	.013	-.0053	-7.8
	.48	-.069	.0109	.036	.066	-.0168	-7.7		-1.02	-.084	.0203	.028	.209	-.0088	-7.1		10.26	.368	.0759	.046	-.014	-.0051	-7.9
	.97	-.043	.0104	.034	.073	-.0167	-7.6		-.49	-.059	.0190	.024	.202	-.0089	-7.1		12.31	.440	.1032	.057	-.041	-.0049	-8.0
	2.05	.013	.0110	.029	.078	-.0167	-7.6		.46	-.013	.0182	.016	.185	-.0087	-7.2		14.37	.509	.1356	.055	-.065	-.0048	-8.1
	4.21	.121	.0156	.020	.085	-.0170	-7.6		1.05	.014	.0185	.012	.179	-.0088	-7.2		16.43	.576	.1725	.072	-.088	-.0048	-8.2
	6.28	.222	.0272	.014	.088	-.0167	-7.6		2.06	.062	.0200	.004	.160	-.0088	-7.3		17.46	.610	.1933	.074	-.098	-.0050	-8.2
	8.39	.324	.0479	.008	.075	-.0172	-7.6		4.12	.160	.0274	-.013	.127	-.0088	-7.4								
	10.51	.425	.0761	.004	.067	-.0159	-7.7		6.19	.258	.0413	.029	.097	-.0091	-7.5	1.90	-4.09	-.169	.0291	.033	.159	-.0064	-7.3
	12.65	.541	.1201	.005	.060	-.0164	-7.7		8.25	.374	.0633	-.044	.067	-.0091	-7.6		-2.04	-.094	.0204	.023	.134	-.0060	-7.4
	14.78	.654	.1643	.012	.055	-.0168	-7.7		10.32	.449	.0909	-.059	.036	-.0094	-7.7		-1.01	-.056	.0178	.017	.121	-.0058	-7.4
	16.92	.770	.2234	.019	.046	- - -	-7.7		12.38	.540	.1252	-.073	.001	-.0098	-7.8		-.48	-.038	.0170	.014	.115	-.0057	-7.4
	17.98	.820	.2542	.022	.037	-.0184	-7.8		14.45	.627	.1658	-.086	-.029	-.0103	-8.0		.46	-.003	.0164	.009	.102	-.0057	-7.5
									16.52	.714	.2135	-.098	-.059	-.0112	-8.1		1.04	.017	.0165	.006	.095	-.0056	-7.5
0.90	-4.30	-.298	.0317	.059	.107	-.0133	-7.5		17.52	.754	.2391	-.103	-.070	-.0124	-8.1		2.03	.054	.0175	0	.082	-.0055	-7.6
	-2.19	-.194	.0182	.047	.073	-.0149	-7.6										4.09	.127	.0236	-.011	.052	-.0053	-7.7
	-1.12	-.140	.0141	.042	.072	-.0158	-7.6	1.50	-4.11	-.209	.0320	.046	.211	-.0078	-7.1		6.14	.199	.0345	-.021	.022	-.0048	-7.8
	-.58	-.115	.0129	.041	.083	-.0161	-7.6		-2.05	-.118	.0215	.030	.181	-.0077	-7.2		8.19	.267	.0500	-.031	-.002	-.0049	-7.9
	.38	-.066	.0108	.037	.096	-.0162	-7.6		-1.02	-.072	.0183	.023	.169	-.0075	-7.2		10.24	.334	.0704	-.039	-.026	-.0048	-8.0
	.93	.036	.0107	.034	.108	-.0160	-7.5		-.49	-.049	.0172	.019	.160	-.0074	-7.2		12.30	.401	.0956	-.047	-.052	-.0048	-8.0
	2.10	.095	.0116	.028	.125	-.0161	-7.5		.51	-.005	.0165	.012	.147	-.0073	-7.3		14.34	.464	.1247	-.054	-.073	-.0049	-8.1
	4.20	.142	.0177	.016	.132	-.0170	-7.5		1.04	.018	.0167	.008	.141	-.0073	-7.3		16.40	.526	.1591	-.059	-.093	-.0049	-8.2
																	17.43	.559	.1786	-.061	-.104	-.0038	-8.2

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.27	-.308	0.0329	0.054	0.088	-0.0193	-11.8	0.90	6.31	0.224	0.0334	0.019	0.176	-0.0203	-11.4	1.50	4.12	0.141	0.0274	-0.007	0.154	-0.0103	-11.4
	-2.17	-.208	.0223	.050	.092	-.0214	-11.8		8.43	.332	.0574	.012	.202	-.0202	-11.3		6.18	.226	.0398	-.022	.120	-.0102	-11.5
	-1.13	-.163	.0188	.048	.069	-.0222	-11.8		10.57	.441	.0903	.004	.227	-.0196	-11.3		8.24	.312	.0584	-.035	.089	-.0101	-11.6
	-.60	-.141	.0166	.047	.067	-.0226	-11.8										10.31	.396	.0831	-.047	.058	-.0099	-11.7
	.33	-.103	.0150	.047	.072	-.0237	-11.8	1.20	-4.13	-.291	.0417	.079	.309	-.0170	-10.8		12.36	.477	.1129	-.060	.027	-.0098	-11.9
	.88	-.078	.0141	.046	.071	-.0236	-11.8		-2.06	-.178	.0282	.058	.307	-.0174	-10.9		14.43	.554	.1486	-.070	-.002	-.0097	-12.0
	1.94	-.029	.0135	.042	.077	-.0239	-11.8		-1.03	-.124	.0248	.049	.312	-.0174	-10.8		16.50	.631	.1902	-.079	-.027	-.0108	-12.1
	4.15	.073	.0159	.034	.085	-.0236	-11.8		-.51	-.095	.0226	.043	.309	-.0173	-10.8		17.53	.667	.2130	-.083	-.036	-.0106	-12.1
	6.25	.173	.0233	.029	.094	-.0237	-11.7		.44	-.064	.0210	.034	.308	-.0172	-10.9								
	8.32	.273	.0395	.023	.090	-.0241	-11.8		.98	-.014	.0209	.029	.295	-.0171	-10.9	1.70	-4.10	-.196	.0342	.046	.244	-.0099	-11.0
	10.43	.377	.0683	.019	.080	-.0244	-11.8		2.09	.044	.0215	.018	.265	-.0167	-11.0		-2.05	-.113	.0240	.032	.216	-.0096	-11.1
	12.54	.485	.1048	.015	.075	-.0248	-11.8		4.12	.155	.0282	-.003	.223	-.0168	-11.2		-1.02	-.073	.0209	.026	.203	-.0094	-11.2
	14.68	.598	.1507	.014	.070	-.0252	-11.8		6.19	.265	.0428	-.022	.196	-.0171	-11.3		-.49	-.053	.0199	.023	.196	-.0094	-11.2
	16.80	.705	.2088	.013	.069	-.0266	-11.8		8.27	.375	.0656	-.039	.166	-.0161	-11.4		.46	-.013	.0189	.016	.183	-.0092	-11.2
	17.85	.758	.2321	.014	.066	-.0271	-11.8		10.34	.487	.0965	-.058	.140	-.0157	-11.5		1.04	.008	.0188	.013	.176	-.0090	-11.3
									12.42	.593	.1432	-.071	.135	-.0210	-11.5		2.09	.049	.0198	.006	.160	-.0089	-11.3
0.80	-4.30	-.307	.0353	.060	.131	-.0176	-11.6										4.11	.129	.0257	-.007	.122	-.0085	-11.5
	-2.18	-.205	.0231	.052	.130	-.0191	-11.6	1.30	-4.12	-.251	.0406	.064	.316	-.0135	-10.8		6.16	.210	.0372	-.019	.092	-.0082	-11.6
	-1.13	-.158	.0186	.049	.108	-.0202	-11.7		-2.06	-.152	.0268	.047	.289	-.0134	-10.9		8.21	.284	.0535	-.031	.059	-.0080	-11.7
	-.60	-.136	.0178	.048	.104	-.0207	-11.7		-1.02	-.101	.0249	.038	.292	-.0133	-10.9		10.27	.359	.0737	-.041	.030	-.0078	-11.8
	.35	-.093	.0153	.047	.108	-.0216	-11.7		-.50	-.076	.0235	.034	.286	-.0133	-10.9		12.34	.430	.1026	-.051	.002	-.0075	-11.9
	.89	-.066	.0145	.045	.117	-.0215	-11.6		.45	-.030	.0223	.026	.273	-.0130	-10.9		14.39	.499	.1342	-.060	-.023	-.0073	-12.0
	1.97	-.013	.0144	.042	.124	-.0216	-11.6		.99	.004	.0222	.022	.266	-.0130	-11.0		16.46	.566	.1709	-.066	-.045	-.0074	-12.1
	4.20	.098	.0180	.030	.125	-.0217	-11.6		2.09	.048	.0232	.013	.240	-.0128	-11.1		17.49	.600	.1914	-.069	-.056	-.0077	-12.2
	6.32	.201	.0289	.024	.129	-.0215	-11.6		4.12	.146	.0295	-.005	.197	-.0126	-11.2								
	8.40	.305	.0488	.018	.121	-.0218	-11.6		6.19	.244	.0430	-.021	.166	-.0128	-11.3	1.90	-4.10	-.174	.0321	.036	.212	-.0088	-11.1
	10.52	.407	.0784	.014	.120	-.0207	-11.6		8.26	.340	.0636	-.036	.137	-.0128	-11.4		-2.04	-.100	.0230	.027	.183	-.0085	-11.3
	12.65	.518	.1184	.007	.123	-.0219	-11.6		10.32	.437	.0913	-.051	.104	-.0130	-11.6		-1.01	-.064	.0203	.022	.168	-.0084	-11.3
	14.79	.630	.1665	.002	.131	-.0237	-11.6		12.39	.528	.1249	-.065	.070	-.0134	-11.7		-.49	-.046	.0195	.019	.162	-.0082	-11.3
	16.93	.741	.2238	-.004	.147	-.0260	-11.5		14.46	.616	.1653	-.078	.037	-.0138	-11.8		.45	-.011	.0185	.014	.153	-.0081	-11.4
	18.00	.794	.2558	-.006	.153	-.0263	-11.5		16.54	.702	.2123	-.089	.006	-.0146	-11.9		1.04	.009	.0184	.011	.146	-.0080	-11.4
									17.57	.743	.2506	-.094	-.008	-.0158	-12.0		2.08	.046	.0192	.005	.132	-.0078	-11.5
0.90	-4.32	-.321	.0390	.068	.188	-.0176	-11.4										4.09	.117	.0245	-.006	.098	-.0074	-11.6
	-2.20	-.214	.0244	.058	.164	-.0185	-11.5	1.50	-4.12	-.220	.0366	.053	.270	-.0207	-10.9		6.14	.188	.0347	-.016	.067	-.0070	-11.7
	-1.13	-.161	.0196	.054	.134	-.0197	-11.5		-2.06	-.129	.0257	.038	.249	-.0109	-11.0		8.20	.254	.0495	-.026	.038	-.0068	-11.8
	-.60	-.137	.0178	.052	.143	-.0205	-11.5		-1.02	-.083	.0222	.030	.241	-.0110	-11.0		10.25	.321	.0693	-.034	.011	-.0067	-11.9
	.35	-.091	.0155	.049	.149	-.0207	-11.5		-.51	-.061	.0210	.027	.234	-.0109	-11.1		12.30	.385	.0931	-.042	-.014	-.0063	-12.0
	.91	-.062	.0148	.046	.149	-.0208	-11.5		.46	-.019	.0199	.020	.219	-.0106	-11.8		14.36	.447	.1215	-.049	-.037	-.0061	-12.1
	2.00	-.004	.0143	.040	.159	-.0212	-11.5		1.03	.004	.0199	.015	.212	-.0105	-11.1		16.42	.508	.1547	-.054	-.057	-.0062	-12.2
	4.23	.119	.0200	.027	.170	-.0215	-11.4		2.09	.052	.0211	.008	.194	-.0105	-11.2		17.44	.539	.1733	-.056	-.068	-.0060	-12.2

TABLE XI.- CONCLUDED



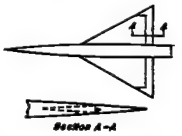
(g) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.29	-0.321	0.0375	0.062	0.149	-0.0179	-15.6
	-2.18	-.230	.0261	.059	.144	-.0204	-15.6
	-1.14	-.188	.0218	.058	.132	-.0215	-15.7
	-.62	-.167	.0208	.057	.130	-.0220	-15.7
	.32	-.128	.0178	.057	.127	-.0227	-15.7
	.84	.105	.0170	.056	.126	-.0231	-15.7
	1.92	.058	.0159	.054	.124	-.0234	-15.7
	4.12	.049	.0173	.046	.126	-.0234	-15.7
	6.24	.148	.0240	.040	.133	-.0234	-15.7
	8.35	.247	.0399	.035	.126	-.0237	-15.7
	10.41	.347	.0638	.031	.115	-.0250	-15.7
	12.53	.454	.0998	.028	.111	-.0245	-15.7
	14.65	.566	.1462	.027	.105	-.0250	-15.7
	16.77	.675	.1987	.027	.103	-.0267	-15.7
	17.84	.725	.2269	.028	.101	-.0272	-15.7
0.80	-4.31	-.321	.0407	.066	.194	-.0198	-15.4
	-2.19	-.224	.0280	.060	.184	-.0222	-15.4
	-1.14	-.177	.0235	.058	.172	-.0235	-15.5
	-.61	-.155	.0219	.056	.172	-.0238	-15.5
	.44	-.112	.0191	.055	.158	-.0248	-15.5
	.98	-.088	.0183	.053	.156	-.0251	-15.5
	2.00	.035	.0177	.049	.161	-.0256	-15.5
	4.17	.075	.0202	.040	.168	-.0256	-15.5
	6.30	.183	.0304	.032	.173	-.0247	-15.5
	8.37	.287	.0493	.026	.166	-.0247	-15.5
	10.49	.388	.0772	.021	.157	-.0226	-15.5
	12.62	.501	.1169	.013	.153	-.0235	-15.5
	14.76	.613	.1640	.008	.155	-.0254	-15.5
	16.89	.720	.2196	.003	.163	----	-15.5
	17.95	.773	.2517	.001	.173	-.0290	-15.5
0.90	-4.33	-.338	.0437	.076	.248	-.0164	-15.2
	-2.21	-.235	.0285	.068	.229	-.0180	-15.3
	-1.15	-.182	.0233	.063	.219	-.0190	-15.3
	-.62	-.158	.0216	.062	.216	-.0193	-15.3
	.34	-.114	.0184	.058	.196	-.0200	-15.4
	.87	-.085	.0178	.057	.199	-.0204	-15.4
	1.96	-.027	.0170	.051	.198	-.0208	-15.4
	4.21	.099	.0210	.036	.198	-.0204	-15.4
0.90	6.36	0.211	0.0336	0.026	0.195	-0.0185	-15.4
	8.42	.320	.0569	.019	.201	-.0176	-15.3
	10.56	.424	.0897	.013	.249	-.0179	-15.2
1.20	-4.12	-.304	.0470	.088	.360	-.0209	-14.7
	-2.06	-.195	.0333	.068	.365	-.0219	-14.7
	-1.03	-.143	.0291	.059	.373	-.0223	-14.6
	-.51	-.115	.0272	.054	.371	-.0223	-14.6
	.48	-.064	.0252	.044	.368	-.0221	-14.6
	1.01	-.036	.0247	.040	.366	-.0222	-14.7
	2.07	.023	.0247	.029	.335	-.0214	-14.8
	4.18	.135	.0303	.007	.283	-.0209	-14.9
	6.18	.242	.0437	.011	.249	-.0211	-15.1
	8.25	.350	.0653	.028	.226	-.0201	-15.1
	10.32	.459	.0947	.046	.197	-.0195	-15.3
	12.40	.566	.1315	.061	.181	-.0240	-15.3
	14.48	.673	.1786	.071	.158	-.0267	-15.4
1.30	-4.12	-.267	.0438	.073	.357	-.0143	-14.6
	-2.06	-.167	.0313	.055	.351	-.0144	-14.7
	-1.03	-.119	.0274	.048	.355	-.0144	-14.6
	-.51	-.093	.0258	.043	.350	-.0143	-14.7
	.49	-.046	.0241	.035	.336	-.0142	-14.7
	.97	-.020	.0238	.031	.332	-.0141	-14.7
	2.09	.034	.0244	.022	.301	-.0137	-14.8
	4.12	.135	.0302	.003	.253	-.0133	-15.0
	6.18	.232	.0431	-.013	.220	-.0135	-15.1
	8.26	.327	.0632	-.027	.194	-.0133	-15.2
	10.33	.424	.0905	-.042	.160	-.0135	-15.4
	12.39	.516	.1240	-.058	.124	-.0136	-15.5
	14.47	.605	.1642	-.070	.095	-.0138	-15.6
	16.53	.691	.2106	-.082	.063	-.0144	-15.7
	17.57	.732	.2361	-.087	.056	-.0154	-15.7
1.50	-4.11	-.232	.0418	.060	.318	-.0141	-14.7
	-2.05	-.142	.0303	.045	.305	-.0145	-14.8
	-1.02	-.097	.0267	.038	.304	-.0145	-14.8
	-.51	-.074	.0254	.034	.299	-.0144	-14.8
	.49	-.032	.0239	.027	.284	-.0140	-14.9
	1.03	-.008	.0238	.023	.281	-.0140	-14.9
1.50	2.09	0.041	0.0245	0.015	---	-0.0139	-15.1
	4.11	.130	.0299	-.005	0.207	-.0139	-15.2
	6.17	.219	.0419	-.148	.171	-.0133	-15.3
	8.23	.303	.0598	-.278	.141	-.0130	-15.4
	10.29	.388	.0840	-.406	.108	-.0128	-15.5
	12.35	.468	.1133	-.530	.077	-.0127	-15.7
	14.41	.547	.1485	-.633	.047	-.0125	-15.8
	16.47	.623	.1895	-.728	.019	-.0129	-15.9
	17.51	.660	.2180	-.768	.011	-.0138	-15.9
1.70	-4.10	-.207	.0365	.051	.293	-.0126	-14.8
	-2.05	-.125	.0262	.039	.275	-.0125	-14.9
	-1.02	-.084	.0249	.032	.262	-.0125	-14.9
	-.50	-.064	.0238	.029	.255	-.0123	-15.0
	.50	-.024	.0226	.022	.244	-.0121	-15.0
	1.03	-.003	.0224	.019	.240	-.0120	-15.0
	2.08	.041	.0231	.012	.222	-.0118	-15.1
	4.10	.119	.0281	-.001	.173	-.0113	-15.3
	6.16	.200	.0388	-.014	.136	-.0108	-15.4
	8.21	.275	.0548	-.025	.104	-.0106	-15.5
	10.27	.358	.0767	-.036	.074	-.0103	-15.7
	12.32	.427	.1039	-.045	.046	-.0101	-15.8
	14.38	.492	.1341	-.055	.028	-.0099	-15.7
	16.43	.560	.1704	-.066	-.007	-.0098	-16.1
	17.46	.594	.1907	-.069	-.019	-.0102	-16.0
1.90	-4.10	-.184	.0347	.043	.261	-.0091	-15.0
	-2.04	-.110	.0251	.032	.234	-.0089	-15.1
	-1.01	-.074	.0222	.027	.217	-.0088	-15.1
	-.49	-.055	.0211	.024	.212	-.0088	-15.1
	.45	-.020	.0200	.019	.200	-.0085	-15.2
	.98	-.001	.0197	.016	.194	-.0086	-15.2
	2.07	.038	.0204	.011	.182	-.0084	-15.3
	4.09	.109	.0253	-.001	.142	-.0080	-15.4
	6.14	.179	.0350	-.011	.109	-.0076	-15.5
	8.20	.246	.0493	-.021	.076	-.0074	-15.7
	10.25	.312	.0685	-.029	.049	-.0073	-15.8
	12.30	.378	.0925	-.037	.022	-.0070	-15.9
	14.36	.439	.1203	-.043	-.003	-.0068	-16.0
	16.41	.501	.1535	-.048	-.026	-.0070	-16.1
	17.44	.533	.1723	-.051	-.038	-.0069	-16.1

(h) Nominal δ, -24°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.30	-0.341	0.0471	0.071	0.244	-0.0242	-23.4
	-2.20	.251	.0347	.067	.240	-.0267	-23.4
	-1.17	.212	.0306	.067	.243	-.0286	-23.4
	-.57	.191	.0287	.067	.246	-.0294	-23.4
	.31	.153	.0264	.066	.238	-.0313	-23.5
	.83	.130	.0256	.066	.218	-.0321	-23.5
	1.89	.085	.0240	.064	.200	-.0334	-23.5
	4.07	.010	.0243	.059	.192	-.0354	-23.5
	6.21	.111	.0891	.054	.199	-.0355	-23.5
	8.32	.215	.0439	.046	.202	-.0346	-23.5
	10.43	.318	.0672	.042	.200	-.0344	-23.5
	12.50	.423	.0995	.039	.190	-.0348	-23.5
	14.62	.535	.1420	.037	.183	-.0359	-23.6
	16.75	.645	.1930	.038	.181	-.0378	-23.6
	17.81	.694	.2210	.040	.184	-.0383	-23.6
0.80	-4.32	-.344	.0516	.076	.282	-.0220	-23.2
	-2.21	-.248	.0379	.070	.273	-.0246	-23.2
	-1.16	-.202	.0332	.068	.271	-.0263	-23.2
	-.63	-.180	.0315	.067	.270	-.0270	-23.2
	.41	-.143	.0287	.066	.259	-.0288	-23.2
	.94	-.119	.0276	.066	.253	-.0295	-23.3
	1.96	-.069	.0266	.062	.240	-.0309	-23.3
	4.12	.037	.0269	.054	.217	-.0324	-23.4
	6.27	.148	.0353	.045	.212	-.0312	-23.4
	8.40	.260	.0589	.035	.201	-.0297	-23.4
	10.47	.367	.0794	.029	.193	-.0282	-23.4
	12.61	.487	.1187	.019	.179	-.0260	-23.5
	14.74	.596	.1645	.013	.176	-.0272	-23.5
	16.87	.706	.2199	.009	.182	-.0284	-23.5
	17.93	.757	.2499	.006	.182	-.0307	-23.5
0.90	-4.36	-.360	.0547	.083	.356	-.0231	-22.9
	-2.23	-.262	.0392	.077	.348	-.0260	-22.9
	-1.17	-.211	.0334	.078	.335	-.0275	-23.0
	-.64	-.188	.0316	.071	.330	-.0284	-23.0
	.31	-.147	.0293	.071	.334	-.0301	-23.0
	.85	-.120	.0273	.068	.325	-.0301	-23.0
0.90	1.93	0.064	0.0259	0.062	0.312	-0.0312	-23.0
	4.17	.055	.0274	.050	.268	-.0289	-23.2
	6.32	.176	.0317	.036	.239	-.0292	-23.2
	8.41	.295	.0586	.027	.227	-.0256	-23.3
	10.55	.409	.0905	.018	.224	-.0233	-23.3
	12.68	.516	.1305	.008	.217	-.0232	-23.3
1.20	2.05	-.014	.0340	.046	.406	-.0300	-22.5
	4.16	.111	.0371	.022	.318	-.0282	-22.9
	6.28	.217	.0489	.003	.295	-.0283	-22.9
	8.24	.320	.0694	-.012	.290	-.0277	-22.9
	10.31	.427	.0970	-.030	.275	-.0274	-23.0
	12.38	.540	.1333	-.049	.249	-.0297	-23.1
1.30	-4.11	-.290	.0351	.069	.411	-.0235	-22.5
	-2.06	-.194	.0419	.069	.409	-.0244	-22.5
	-1.03	-.145	.0374	.061	.410	-.0247	-22.5
	-.51	-.121	.0355	.057	.408	-.0248	-22.6
	.41	-.075	.0332	.049	.400	-.0248	-22.6
	.99	-.048	.0324	.043	.395	-.0249	-22.6
	2.05	.004	.0318	.035	.369	-.0244	-22.7
	4.11	.110	.0360	.016	.284	-.0231	-23.0
	6.17	.206	.0474	-.001	.263	-.0231	-23.0
	8.24	.299	.0663	-.014	.249	-.0238	-23.1
	10.32	.399	.0926	-.029	.229	-.0228	-23.2
	12.37	.491	.1245	-.041	.194	-.0228	-23.3
	14.44	.574	.1622	-.056	.162	-.0242	-23.4
	16.51	.667	.2186	-.070	.136	-.0238	-23.5
	17.55	.708	.2339	-.074	.134	-.0245	-23.5
1.50	-4.11	-.251	.0308	.070	.372	-.0197	-22.6
	-2.05	-.161	.0390	.055	.354	-.0200	-22.6
	-1.02	-.119	.0354	.049	.357	-.0203	-22.6
	-.51	-.095	.0338	.045	.350	-.0202	-22.6
	.48	-.054	.0320	.038	.340	-.0200	-22.7
	1.01	-.031	.0315	.035	.333	-.0200	-22.7
	2.07	.018	.0315	.026	.308	-.0197	-22.8
	4.11	.110	.0355	.010	.244	-.0191	-23.0
1.50	6.16	0.196	0.0458	-0.004	0.211	-0.0188	-23.2
	8.22	.280	.0630	-.016	.198	-.0186	-23.2
	10.28	.365	.0851	-.029	.175	-.0182	-23.3
	12.32	.419	.1091	-.038	.157	-.0179	-23.4
	14.40	.526	.1482	-.054	.110	-.0175	-23.5
	16.46	.600	.1873	-.062	.084	-.0178	-23.6
	17.49	.639	.2105	-.067	.080	-.0186	-23.7
1.70	-4.10	-.223	.0484	.061	.351	-.0175	-22.6
	-2.05	-.142	.0370	.048	.330	-.0173	-22.7
	-1.02	-.102	.0333	.042	.322	-.0173	-22.7
	-.50	-.080	.0318	.038	.314	-.0171	-22.7
	.48	-.043	.0300	.032	.299	-.0169	-22.8
	1.01	-.023	.0297	.029	.294	-.0169	-22.8
	2.07	.022	.0298	.022	.277	-.0166	-22.9
	4.10	.103	.0339	.008	.220	-.0161	-23.1
	6.15	.181	.0431	-.004	.182	-.0156	-23.2
	8.21	.256	.0583	-.015	.150	-.0154	-23.3
	10.26	.331	.0791	-.026	.112	-.0149	-23.4
	12.32	.405	.1047	-.036	.111	-.0144	-23.5
	14.38	.474	.1349	-.046	.075	-.0140	-23.7
	16.43	.542	.1706	-.056	.056	-.0141	-23.7
	17.46	.576	.1903	-.055	.038	-.0145	-23.8
1.90	-4.10	-.199	.0432	.052	.323	-.0158	-22.7
	-2.04	-.126	.0328	.041	.297	-.0155	-22.8
	-1.02	-.088	.0294	.035	.286	-.0153	-22.8
	-.50	-.070	.0282	.033	.281	-.0152	-22.9
	.44	-.036	.0266	.028	.267	-.0150	-22.9
	.96	-.017	.0262	.025	.258	-.0148	-22.9
	2.07	.022	.0263	.019	.243	-.0147	-23.0
	4.07	.095	.0293	.008	.189	-.0142	-23.2
	6.12	.166	.0367	-.003	.151	-.0136	-23.4
	8.17	.231	.0563	-.018	.124	-.0133	-23.5
	10.23	.297	.0709	-.021	.107	-.0130	-23.5
	12.28	.365	.0943	-.029	.082	-.0125	-23.6
	14.33	.427	.1216	-.036	.048	-.0123	-23.8
	16.39	.482	.1541	-.040	.063	-.0123	-23.9
	17.42	.520	.1726	-.042	.010	-.0123	-23.9

TABLE XII.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH A 5.5-PERCENT-AREA TRIANGULAR HORN BALANCE ON THE RIGHT WING PANEL AND A 6.4-PERCENT-AREA RECTANGULAR HORN BALANCE ON THE LEFT WING PANEL. DATA FOR 5.5-PERCENT-AREA TRIANGULAR HORN BALANCE FLAP DEFLECTED. $R = 4.4 \times 10^6$



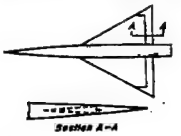
(a) Nominal δ, 2°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.18	-0.174	0.0150	0.003	-0.011	-0.0059	1.7
	-2.06	-.083	.0097	-.008	-.017	-.0057	1.7
	-1.05	-.036	.0081	-.004	-.019	-.0054	1.7
	-.28	-.013	.0073	-.005	-.021	-.0054	1.7
	.49	.033	.0075	-.007	-.021	-.0052	1.7
	1.26	.058	.0084	-.008	-.020	-.0052	1.7
	2.08	.100	.0103	-.010	-.021	-.0052	1.7
	4.80	.194	.0172	-.015	-.021	-.0051	1.7
	6.85	.291	.0313	-.021	-.024	-.0051	1.7
	8.40	.391	.0527	-.029	-.031	-.0035	1.6
	10.32	.488	.0826	-.036	-.037	-.0036	1.6
	12.64	.596	.1235	-.046	-.108	-.0038	1.5
	14.73	.704	.1720	-.057	-.117	-.0041	1.5
	16.91	.836	.2350	-.033	-.134	-.0006	1.5
	17.96	.869	.2622	-.033	-.145	-.0004	1.5
0.80	-4.21	-.186	.0166	.006	-.012	-.0063	1.7
	-2.10	-.086	.0096	-.001	-.020	-.0059	1.7
	-1.07	-.036	.0078	-.005	-.026	-.0058	1.7
	-.54	-.011	.0072	-.006	-.026	-.0056	1.7
	.30	.031	.0071	-.008	-.025	-.0052	1.7
	1.04	.057	.0084	-.009	-.025	-.0051	1.7
	2.11	.101	.0106	-.013	-.023	-.0051	1.7
	4.82	.200	.0181	-.020	-.031	-.0048	1.7
	6.35	.316	.0353	-.028	-.049	-.0047	1.6
	8.50	.432	.0626	-.034	-.069	-.0046	1.6
	10.60	.508	.0927	-.037	-.103	-.0027	1.5
	12.74	.616	.1357	-.034	-.136	-.0020	1.4
	14.88	.728	.1873	-.041	-.151	-.0023	1.4
	17.00	.831	.2452	-.050	-.161	-.0042	1.3
	18.06	.881	.2816	-.051	-.171	-.0044	1.3
0.90	-4.23	-.195	.0174	.009	-.012	-.0063	1.7
	-2.11	-.091	.0098	0	-.023	-.0062	1.7
	-1.07	-.038	.0073	-.004	-.031	-.0059	1.7
	-.54	-.012	.0065	-.007	-.031	-.0058	1.7
	.46	.035	.0073	-.009	-.027	-.0055	1.7
0.90	1.03	0.068	0.0077	-0.011	-0.026	-0.0052	1.7
	2.12	.115	.0108	-.015	-.026	-.0049	1.7
	4.25	.223	.0200	-.024	-.033	-.0047	1.7
	6.39	.336	.0383	-.033	-.054	-.0056	1.6
	8.52	.451	.0643	-.033	-.087	-.0030	1.5
1.20	-4.13	-.203	.0246	.030	.002	-.0047	1.8
	-2.06	-.098	.0159	.012	-.029	-.0041	1.7
	-1.08	-.047	.0136	.005	-.043	-.0037	1.6
	-.45	-.013	.0130	.001	-.052	-.0036	1.6
	.45	.025	.0131	-.007	-.068	-.0031	1.5
	1.02	.058	.0140	-.011	-.077	-.0031	1.5
	2.06	.108	.0165	-.018	-.093	-.0029	1.4
	4.12	.206	.0257	-.031	-.127	-.0027	1.3
	6.19	.310	.0421	-.052	-.161	-.0025	1.2
	8.27	.417	.0669	-.069	-.198	-.0019	1.1
	10.34	.520	.0987	-.084	-.239	-.0012	.9
	12.41	.639	.1494	-.106	-.264	-.0008	.8
1.30	-4.13	-.190	.0268	0.026	-.001	-.0047	1.8
	-2.06	-.098	.0188	.018	-.015	-.0045	1.7
	-1.08	-.045	.0159	.005	-.031	-.0034	1.6
	-.47	-.021	.0153	.001	-.036	-.0031	1.6
	.45	.025	.0159	-.005	-.053	-.0027	1.6
	1.01	.048	.0163	-.009	-.062	-.0025	1.5
	2.06	.096	.0188	-.017	-.080	-.0022	1.5
	4.12	.193	.0278	-.032	-.116	-.0015	1.3
	6.19	.287	.0431	-.046	-.153	-.0012	1.2
	8.26	.389	.0650	-.060	-.187	-.0007	1.1
	10.33	.473	.0954	-.073	-.225	-.0005	1.0
	12.39	.561	.1308	-.085	-.259	-.0034	.8
	14.47	.648	.1730	-.097	-.301	-.0003	.7
	16.54	.732	.2211	-.108	-.334	-.0012	.6
1.50	-4.11	-.179	.0248	.025	.025	-.0036	1.8
	-2.03	-.084	.0168	.010	-.009	-.0036	1.7
	-1.00	-.040	.0145	.004	-.025	-.0028	1.7
	-.48	-.018	.0140	0	-.032	-.0025	1.6
1.50	0.47	0.022	0.0142	-0.006	-0.046	-0.0029	1.6
	1.02	.046	.0147	-.010	-.055	-.0021	1.6
	2.05	.092	.0178	-.016	-.073	-.0017	1.5
	4.11	.178	.0277	-.030	-.107	-.0011	1.4
	6.18	.264	.0399	-.043	-.141	-.0006	1.3
	8.24	.347	.0603	-.055	-.172	0	1.1
1.70	-4.11	-.161	.0241	.023	.026	-.0031	1.9
	-2.05	-.080	.0163	.011	-.001	-.0025	1.7
	-1.02	-.038	.0144	.006	-.017	-.0021	1.7
	-.47	-.016	.0136	.002	-.024	-.0019	1.7
	.47	.021	.0141	-.003	-.040	-.0017	1.6
	1.01	.042	.0146	-.008	-.049	-.0015	1.6
	2.05	.083	.0167	-.014	-.065	-.0012	1.5
	4.11	.169	.0245	-.026	-.097	-.0004	1.4
	6.18	.253	.0358	-.036	-.129	.0008	1.3
	8.23	.338	.0508	-.048	-.158	.0007	1.2
	10.30	.419	.0711	-.059	-.183	.0013	1.1
	12.36	.498	.1006	-.066	-.212	.0019	1.0
	14.42	.574	.1431	-.074	-.241	.0025	.9
	16.48	.644	.1921	-.080	-.270	.0029	.7
	17.52	.675	.2035	-.082	-.286	.0029	.7
1.90	-4.11	-.143	.0233	.019	.029	-.0893	1.9
	-2.04	-.072	.0158	.009	.008	-.0083	1.8
	-1.00	-.032	.0142	.003	-.011	-.0215	1.7
	-.48	-.018	.0142	.001	-.018	-.0184	1.7
	.48	.018	.0143	-.004	-.031	-.0311	1.6
	.99	.033	.0144	-.007	-.039	-.0364	1.6
	2.04	.074	.0161	-.013	-.053	-.0336	1.6
	4.10	.143	.0234	-.022	-.081	-.0818	1.5
	6.15	.213	.0351	-.031	-.110	-.1100	1.4
	8.20	.277	.0524	-.040	-.135	-.1354	1.3
	10.25	.346	.0733	-.048	-.159	-.1590	1.2
	12.31	.406	.0973	-.053	-.183	-.1839	1.1
	14.37	.465	.1271	-.061	-.206	-.2066	1.0
	16.43	.508	.1616	-.064	-.233	-.2333	.9
	17.46	.556	.1812	-.066	-.245	-.2454	.9

(b) Nominal δ, 0°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-8.42	-0.404	0.0768	0.080	0.039	-0.0024	-0.2
	-6.35	-.295	.0324	.016	.004	-.0024	-.2
	-4.19	-.196	.0178	.010	.011	-.0022	-.2
	-2.16	-.103	.0103	.005	.009	-.0020	-.2
	-1.04	-.051	.0087	.003	.004	-.0020	-.2
	-.30	-.035	.0081	.002	.003	-.0018	-.2
	.49	.008	.0070	0	.001	-.0017	-.3
	1.00	.031	.0081	-.001	.001	-.0018	-.3
	2.06	.078	.0098	-.003	.001	-.0018	-.3
	4.16	.174	.0159	-.008	.003	-.0016	-.3
	6.27	.274	.0269	-.014	.016	-.0018	-.3
	8.37	.376	.0496	-.019	.032	-.0003	-.3
	10.49	.472	.0789	-.020	.061	-.0006	-.4
	12.61	.581	.1188	-.021	.073	-.0010	-.4
	14.74	.691	.1681	-.021	.091	-.0020	-.4
	16.87	.802	.2309	-.026	.106	-.0039	-.5
	17.93	.876	.2841	-.026	.117	-.0039	-.5
0.80	-8.48	-.483	.0622	.025	.049	-.0004	-.1
	-6.35	-.319	.0337	.021	.030	-.0024	-.2
	-4.23	-.209	.0186	.014	.015	-.0023	-.2
	-2.12	-.101	.0106	.007	.006	-.0021	-.2
	-1.07	-.052	.0086	.004	.004	-.0020	-.2
	-.50	-.023	.0078	.002	.003	-.0018	-.2
	.47	.011	.0076	.001	.003	-.0014	-.2
	1.05	.035	.0080	-.001	.003	-.0015	-.2
	2.10	.087	.0100	-.004	.001	-.0014	-.3
	4.21	.186	.0178	-.012	.005	-.0018	-.3
	6.32	.295	.0332	-.018	.016	-.0005	-.3
	8.46	.405	.0579	-.025	.036	-.0005	-.3
	10.57	.498	.0879	-.031	.079	-.0005	-.3
	12.31	.600	.1267	-.038	.108	-.0007	-.5
	14.30	.713	.1787	-.035	.119	-.0006	-.6
	16.41	.826	.2378	-.043	.189	-.0009	-.6
	17.45	.881	.2707	-.045	.140	-.0009	-.6
0.90	-8.53	-.453	.0684	.037	.063	-.0011	-.1
	-6.38	-.383	.0376	.026	.031	-.0013	-.2
	-4.25	-.219	.0197	.018	.014	-.0013	-.2
	-2.12	-.113	.0103	.010	.003	-.0015	-.2
	-1.06	-.063	.0080	.005	.002	-.0021	-.2
	-.51	-.033	.0073	.003	.000	-.0019	-.3
	.48	.014	.0071	.001	.003	-.0013	-.2
	1.01	.036	.0074	-.001	.003	-.0012	-.2
	2.10	.094	.0097	-.006	.003	-.0011	-.2
	4.23	.203	.0182	-.016	.004	-.0010	-.3
0.90	6.36	0.308	0.0346	-0.021	-0.031	-0.0006	-0.3
	8.48	.405	.0599	-.025	-.068	-.0012	-.4
	10.62	.580	.0965	-.033	-.103	-.0018	-.5
	12.74	.680	.1389	-.041	-.142	-.0020	-.6
1.20	-8.87	-.437	.0697	.010	.141	-.0048	.1
	-6.21	-.324	.0428	.002	.105	-.0035	0
	-4.13	-.211	.0261	.015	.073	-.0023	.0
	-2.06	-.108	.0167	.027	.036	-.0018	.1
	-1.02	-.059	.0141	.010	.022	-.0014	.2
	-.44	-.033	.0132	.006	.014	-.0013	.2
	.48	.015	.0131	-.002	-.003	-.0009	.3
	1.00	.041	.0138	-.006	-.009	-.0008	.3
	2.05	.091	.0160	-.013	-.024	-.0006	.3
	4.12	.194	.0256	-.028	-.058	-.0003	.4
	6.19	.296	.0406	-.047	-.093	.0001	.6
	8.26	.406	.0650	-.063	-.138	.0021	.7
	10.33	.508	.0961	-.078	-.174	.0019	.8
	12.40	.620	.1360	-.098	-.224	.0018	1.0
1.30	-8.86	-.397	.0584	.061	.141	-.0036	.1
	-6.19	-.297	.0438	.047	.111	-.0031	0
	-4.12	-.200	.0288	.032	.076	-.0025	.0
	-2.06	-.102	.0190	.016	.040	-.0019	.1
	-1.02	-.054	.0169	.009	.023	-.0015	.2
	-.50	-.030	.0157	.005	.011	-.0013	.2
	.48	.014	.0155	-.002	-.001	-.0008	.3
	1.00	.039	.0168	-.006	-.009	-.0005	.3
	2.05	.087	.0195	-.013	-.025	-.0002	.3
	4.12	.185	.0371	-.028	-.060	.0004	.5
	6.18	.280	.0418	-.043	-.099	.0007	.6
	8.25	.374	.0643	-.056	-.135	.0010	.7
	10.31	.466	.0932	-.070	-.174	.0018	.8
	12.38	.573	.1289	-.088	-.211	.0013	1.0
	14.45	.672	.1700	-.094	-.246	.0018	1.1
	16.52	.764	.2174	-.104	-.278	.0006	1.2
	17.55	.766	.2439	-.109	-.294	-.0009	1.2
1.50	-8.84	-.367	.0633	.056	.136	-.0036	.1
	-6.18	-.278	.0418	.043	.105	-.0029	0
	-4.12	-.187	.0269	.032	.073	-.0023	.0
	-2.05	-.096	.0182	.014	.037	-.0018	.1
	-1.02	-.048	.0154	.007	.019	-.0013	.2
	-.49	-.026	.0147	.004	.010	-.0011	.2
	.47	.018	.0148	-.003	-.003	-.0006	.3
	.99	.039	.0150	-.006	-.010	-.0005	.3
1.50	2.03	0.066	0.0173	-0.014	-0.028	0.0003	-0.4
	4.11	.177	.0259	-.028	-.062	.0003	-.5
	6.18	.288	.0404	-.041	-.097	.0010	-.6
	8.23	.398	.0611	-.054	-.132	.0014	-.7
	10.29	.496	.0879	-.065	-.161	.0019	-.8
	12.33	.516	.1198	-.076	-.193	.0025	-.9
	14.41	.594	.1573	-.085	-.225	.0029	-1.0
	16.48	.673	.2015	-.095	-.256	.0031	-1.1
	17.52	.711	.2261	-.099	-.272	.0035	-1.2
1.70	-8.81	-.382	.0559	.047	.187	-.0032	.1
	-6.16	-.284	.0380	.036	.099	-.0027	0
	-4.10	-.189	.0248	.025	.069	-.0018	0
	-2.03	-.089	.0169	.013	.037	-.0012	-.1
	-1.00	-.043	.0142	.007	.020	-.0009	-.2
	-.46	-.019	.0137	.002	.003	-.0005	-.3
	1.00	.033	.0141	-.006	-.010	-.0003	-.3
	2.04	.079	.0161	-.012	-.027	0	-.3
	4.09	.154	.0239	-.024	-.057	.0006	-.4
	6.15	.238	.0354	-.035	-.090	.0014	-.6
	8.19	.323	.0504	-.045	-.120	.0018	-.7
	10.25	.371	.0717	-.055	-.149	.0024	-.7
	12.30	.442	.1053	-.064	-.171	.0031	-.8
	14.35	.516	.1376	-.072	-.200	.0036	-.9
	16.40	.583	.1791	-.078	-.226	.0041	-1.0
	17.45	.615	.1963	-.080	-.240	.0041	-1.1
1.90	-8.18	-.281	.0531	.039	.115	-.0030	0
	-6.12	-.218	.0363	.030	.090	-.0023	0
	-4.09	-.151	.0248	.019	.063	-.0016	-.1
	-2.04	-.077	.0168	.010	.035	-.0010	-.1
	-1.00	-.041	.0150	.005	.019	-.0006	-.2
	-.47	-.023	.0143	.003	.011	-.0007	-.2
	.47	.010	.0143	-.002	-.002	-.0005	-.3
	.99	.022	.0147	-.003	-.007	-.0004	-.3
	2.06	.062	.0161	-.010	-.022	-.0001	-.3
	4.08	.137	.0229	-.020	-.049	.0005	-.4
	6.13	.206	.0334	-.030	-.077	.0012	-.5
	8.17	.272	.0503	-.038	-.103	.0018	-.6
	10.22	.336	.0707	-.046	-.127	.0023	-.7
	12.27	.401	.0971	-.053	-.151	.0031	-.7
	14.31	.464	.1321	-.059	-.174	.0034	-.8
	16.37	.523	.1761	-.064	-.197	.0044	-.9
	17.40	.552	.1982	-.066	-.210	.0047	-.9

TABLE XII.- CONTINUED



(c) Nominal δ, -2°

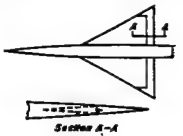
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.19	-0.208	0.0166	0.018	0.085	0.0010	-2.2	0.90	6.45	0.290	0.0342	-0.012	0.010	0.0031	-2.1	1.50	4.18	0.168	0.0246	-0.023	-0.022	0.0017	-2.3
	-2.11	-.119	.0106	.013	.021	.0014	-2.2		8.61	.391	.0597	-.017	-.044	.0037	-2.4		6.17	.253	.0382	-.036	-.057	.0023	-2.9
	-1.09	-.073	.0083	.011	.020	.0017	-2.2		10.82	.504	.0967	-.025	-.081	.0040	-2.5		8.27	.337	.0582	-.048	-.082	.0027	-2.6
	-.52	-.050	.0075	.010	.020	.0017	-2.2										10.30	.418	.0838	-.060	-.125	.0031	-2.7
	.46	-.007	.0070	.009	.019	.0019	-2.2	1.20	-4.13	-.281	.0271	.041	.128	.0001	-1.8		12.36	.496	.1144	-.076	-.159	.0038	-2.8
	1.04	.015	.0073	.008	.019	.0019	-2.2		-2.06	-.115	.0171	.023	.097	.0007	-1.9		14.43	.572	.1509	-.080	-.191	.0042	-2.9
	2.04	.063	.0087	.005	.016	.0017	-2.2		-1.03	-.064	.0144	.015	.083	.0011	-2.0		16.49	.646	.1905	-.089	-.221	.0043	-3.0
	4.17	.159	.0145	0	.013	.0019	-2.2		-.49	-.036	.0135	.011	.074	.0011	-2.0		17.53	.683	.2162	-.092	-.239	.0038	-3.1
	6.26	.254	.0269	-.006	0	.0021	-2.3		.52	.010	.0132	.004	.057	.0015	-2.1								
	8.37	.354	.0486	-.011	-.016	.0035	-2.3		1.01	.034	.0137	0	.050	.0016	-2.1	1.70	-4.11	-.168	.0232	.028	.095	-.0008	-1.9
	10.48	.455	.0766	-.013	-.038	.0028	-2.3		2.06	.083	.0158	-.007	.034	.0019	-2.1		-2.05	-.087	.0168	.016	.060	0	-2.0
	12.60	.560	.1148	-.013	-.052	.0083	-2.4		4.12	.187	.0240	-.024	.000	.0021	-2.3		-1.01	-.047	.0146	.009	.052	.0004	-2.1
	14.73	.672	.1636	-.014	-.068	.0021	-2.4		6.19	.291	.0394	-.041	-.034	.0022	-2.4		-.49	-.025	.0143	.006	.042	.0006	-2.1
	16.87	.802	.2262	-.020	-.086	.0057	-2.4		8.27	.398	.0634	-.057	-.073	.0032	-2.5		.47	.012	.0140	0	.027	.0008	-2.2
	17.93	.856	.2585	-.020	-.098	.0057	-2.5		10.33	.501	.0943	-.073	-.114	.0037	-2.6		1.00	.031	.0140	-.003	.019	.0009	-2.2
									12.40	.611	.1364	-.091	-.162	.0042	-2.8		2.04	.072	.0159	-.009	.004	.0012	-2.2
0.80	-4.24	-.225	.0200	.023	.032	.0012	-2.2										4.10	.151	.0232	-.021	-.025	.0018	-2.3
	-2.13	-.124	.0112	.016	.024	.0016	-2.2	1.30	-4.12	-.204	.0276	.038	.118	-.0008	-1.9		6.16	.229	.0358	-.032	-.058	.0025	-2.5
	-1.06	-.074	.0087	.013	.023	.0018	-2.2		-2.05	-.105	.0180	.020	.087	0	-2.0		8.21	.305	.0533	-.042	-.088	.0029	-2.6
	-.52	-.050	.0079	.012	.024	.0021	-2.2		-1.01	-.056	.0152	.013	.072	.0005	-2.0		10.27	.377	.0768	-.052	-.117	.0036	-2.7
	.46	-.006	.0075	.010	.025	.0023	-2.2		-.48	-.032	.0144	.009	.061	.0005	-2.0		12.33	.447	.1042	-.062	-.140	.0041	-2.8
	1.07	.018	.0078	.009	.025	.0024	-2.2		.52	.012	.0141	.002	.043	.0010	-2.1		14.38	.513	.1363	-.069	-.172	.0047	-2.9
	2.09	.069	.0094	.005	.019	.0022	-2.2		1.00	.035	.0147	-.001	.036	.0013	-2.1		16.45	.580	.1742	-.075	-.199	.0053	-3.0
	4.20	.171	.0160	-.003	.013	.0024	-2.2		2.05	.083	.0168	-.008	.023	.0016	-2.2		17.48	.613	.1948	-.077	-.214	.0051	-3.0
	6.32	.275	.0306	-.010	.001	.0034	-2.3		4.12	.176	.0250	-.024	-.011	.0023	-2.3								
	8.43	.380	.0547	-.015	-.019	.0055	-2.3		6.19	.274	.0398	-.038	-.049	.0025	-2.4	1.90	-4.10	-.151	.0235	.023	.086	-.0006	-2.0
	10.56	.470	.0845	-.013	-.055	.0034	-2.4		8.25	.369	.0621	-.052	-.088	.0026	-2.6		-2.05	-.078	.0160	.013	.059	0	-2.0
	12.69	.583	.1268	-.021	-.074	.0035	-2.4		10.32	.460	.0906	-.066	-.126	.0030	-2.7		-1.01	-.042	.0142	.008	.045	.0002	-2.1
	14.83	.695	.1776	-.027	-.088	.0033	-2.5		12.38	.548	.1252	-.077	-.164	.0031	-2.8		-.48	-.024	.0136	.005	.038	.0004	-2.1
	16.96	.808	.2357	-.033	-.099	.0023	-2.5		14.49	.634	.1669	-.089	-.201	.0031	-2.9		.47	.009	.0134	0	.024	.0006	-2.2
	18.02	.848	.2677	-.035	-.113	.0022	-2.5		16.52	.718	.2141	-.099	-.233	.0023	-3.1		1.04	.028	.0137	-.003	.017	.0007	-2.2
									17.56	.759	.2403	-.104	-.250	.0013	-3.1		2.04	.064	.0152	-.008	.003	.0010	-2.2
0.90	-4.27	-.239	.0213	.028	.034	.0016	-2.2										4.09	.136	.0218	-.018	-.023	.0016	-2.3
	-2.13	-.133	.0108	.020	.027	.0016	-2.1	1.50	-4.11	-.183	.0266	.031	.105	-.0009	-1.9		6.14	.205	.0331	-.027	-.052	.0022	-2.4
	-1.07	-.081	.0079	.016	.027	.0022	-2.1		-2.05	-.094	.0177	.017	.072	-.0001	-2.0		8.19	.269	.0490	-.036	-.077	.0028	-2.5
	-.53	-.053	.0065	.014	.027	.0023	-2.1		-1.01	-.050	.0151	.011	.057	.0002	-2.1		10.24	.332	.0691	-.044	-.103	.0032	-2.6
	.45	-.007	.0061	.011	.030	.0027	-2.1		-.48	-.027	.0142	.007	.048	.0004	-2.1		12.30	.401	.0946	-.051	-.129	.0040	-2.7
	1.05	.022	.0064	.010	.030	.0027	-2.1		.47	.013	.0140	.001	.038	.0007	-2.1		14.35	.459	.1232	-.057	-.159	.0045	-2.8
	2.08	.074	.0083	.004	.024	.0027	-2.1		1.00	.036	.0145	-.003	.026	.0010	-2.2		16.40	.517	.1569	-.059	-.174	.0053	-2.9
	4.22	.186	.0166	-.006	.015	.0027	-2.1		2.05	.079	.0166	-.010	.010	.0012	-2.2		17.43	.547	.1797	-.063	-.185	.0056	-2.9

(d) Nominal δ, -4°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.22	-0.230	0.0200	-0.026	-0.040	0.0045	-4.2	0.90	6.33	0.270	0.0310	-0.003	-0.017	0.0069	-4.2	1.50	4.11	0.168	0.0232	-0.020	0.014	0.0024	-4.2
	-2.12	-.136	.0123	.021	.036	.0050	-4.2		8.46	.373	.0553	-.007	-.003	.0070	-4.3		6.18	.248	.0368	-.033	-.019	.0029	-4.3
	-1.07	-.090	.0098	.019	.037	.0052	-4.2		10.59	.479	.0897	-.014	-.010	.0077	-4.3		8.24	.332	.0564	-.045	-.056	.0032	-4.5
	-.53	-.066	.0087	.018	.037	.0054	-4.2										10.29	.412	.0818	-.056	-.091	.0035	-4.6
	.43	-.025	.0080	.017	.037	.0054	-4.2	1.20	-4.13	-.230	.0271	.047	.184	.0022	-3.6		12.36	.491	.1127	-.067	-.126	.0040	-4.7
	.96	-.002	.0079	.015	.037	.0052	-4.2		-2.06	-.124	.0169	.029	.158	.0027	-3.7		14.42	.566	.1487	-.077	-.157	.0044	-4.9
	2.09	.047	.0091	.013	.033	.0052	-4.2		-1.02	-.072	.0140	.021	.148	.0030	-3.7		16.49	.641	.1907	-.085	-.187	.0045	-5.0
	4.17	.141	.0139	.007	.027	.0054	-4.2		-.49	-.046	.0129	.017	.139	.0029	-3.8		17.52	.677	.2136	-.089	-.204	.0041	-5.0
	6.31	.238	.0258	.002	.014	.0056	-4.2		.51	.001	.0126	.010	.122	.0031	-3.8								
	8.44	.338	.0461	-.003	-.009	.0068	-4.3		1.05	.028	.0131	.006	.112	.0032	-3.9	1.70	-4.10	-.172	.0247	.030	.126	.0009	-3.8
	10.58	.441	.0748	-.006	-.020	.0060	-4.3		2.11	.076	.0150	-.002	.094	.0034	-3.9		-2.05	-.091	.0162	.018	.098	.0010	-3.9
	12.74	.544	.1130	-.007	-.030	.0058	-4.3		4.18	.180	.0231	-.019	.058	.0035	-4.1		-1.01	-.051	.0138	.012	.083	.0012	-3.9
	14.90	.655	.1616	-.008	-.046	.0049	-4.3		6.19	.284	.0363	-.036	.023	.0036	-4.2		-.48	-.030	.0130	.008	.074	.0014	-4.0
	17.09	.784	.2240	-.014	-.065	.0086	-4.4		8.25	.391	.0621	-.052	-.019	.0042	-4.3		.52	.008	.0127	.003	.059	.0015	-4.0
	18.17	.835	.2556	-.014	-.076	.0089	-4.4		10.33	.493	.0927	-.068	-.060	.0046	-4.5		1.00	.029	.0131	0	.051	.0016	-4.1
									12.40	.602	.1339	-.085	-.106	.0051	-4.6		2.05	.068	.0148	-.006	.036	.0019	-4.1
0.80	-4.26	-.247	.0218	.032	.050	.0038	-4.1										4.10	.148	.0220	-.018	.002	.0023	-4.2
	-2.14	-.144	.0120	.025	.045	.0042	-4.1	1.30	-4.12	-.210	.0286	.041	.168	.0007	-3.7		6.16	.226	.0345	-.030	-.027	.0029	-4.4
	-1.08	-.095	.0091	.022	.045	.0046	-4.1		-2.05	-.113	.0187	.025	.137	.0018	-3.8		8.22	.299	.0520	-.040	-.056	.0032	-4.5
	-.54	-.068	.0080	.021	.045	.0047	-4.1		-1.02	-.064	.0156	.017	.123	.0024	-3.8		10.27	.372	.0749	-.049	-.089	.0036	-4.6
	.43	-.023	.0071	.019	.047	.0048	-4.1		-.48	-.039	.0149	.014	.113	.0034	-3.9		12.33	.442	.1022	-.059	-.120	.0040	-4.7
	1.02	.001	.0073	.017	.047	.0047	-4.1		.52	.007	.0145	.007	.095	.0028	-3.9		14.38	.509	.1344	-.066	-.145	.0046	-4.8
	2.10	.052	.0086	.013	.041	.0047	-4.1		1.05	.030	.0150	.003	.087	.0031	-4.0		16.44	.575	.1719	-.072	-.171	.0050	-4.9
	4.18	.153	.0148	.006	.033	.0047	-4.2		2.05	.076	.0169	-.004	.073	.0034	-4.0		17.47	.608	.1924	-.075	-.185	.0050	-5.0
	6.30	.254	.0284	-.001	.020	.0049	-4.2		4.11	.172	.0248	-.019	.036	.0040	-4.1								
	8.43	.363	.0529	-.007	-.007	.0058	-4.3		6.19	.268	.0392	-.034	-.003	.0041	-4.3	1.90	-4.10	-.154	.0234	.025	.111	.0003	-3.9
	10.55	.463	.0852	-.007	-.032	.0072	-4.3		8.25	.362	.0610	-.048	-.041	.0043	-4.4		-2.04	-.082	.0157	.015	.085	.0009	-4.0
	12.68	.567	.1247	-.014	-.048	.0050	-4.4		10.32	.454	.0893	-.061	-.081	.0046	-4.5		-1.01	-.046	.0138	.010	.071	.0012	-4.0
	14.82	.683	.1758	-.021	-.062	.0050	-4.4		12.38	.541	.1235	-.073	-.120	.0047	-4.7		-.48	-.027	.0131	.007	.065	.0014	-4.0
	16.95	.786	.2334	-.026	-.076	.0044	-4.5		14.45	.628	.1645	-.089	-.157	.0046	-4.8		.51	.007	.0129	.002	.049	.0015	-4.1
	18.00	.838	.2633	-.026	-.090	.0044	-4.5		16.52	.718	.2119	-.09	-.190	.0039	-4.9		1.00	.025	.0133	0	.042	.0016	-4.1
									17.56	.753	.2379	-.100	-.206	.0028	-5.0		2.04	.062	.0146	-.006	.028	.0019	-4.2
0.90	-4.27	-.256	.0233	.037	.055	.0031	-4.1										4.09	.132	.0210	-.016	-.000	.0024	-4.3
	-2.13	-.151	.0125	.029	.055	.0052	-4.1	1.50	-4.12	-.186	.0269	.035	.145	.0009	-3.7		6.14	.201	.0323	-.025	-.025	.0030	-4.3
	-1.08	-.098	.0094	.025	.053	.0061	-4.1		-2.05	-.099	.0168	.021	.113	.0011	-3.8		8.19	.267	.0480	-.034	-.052	.0036	-4.4
	-.54	-.073	.0084	.024	.058	.0064	-4.1		-1.01	-.055	.0148	.014	.097	.0014	-3.9		10.24	.331	.0682	-.041	-.079	.0040	-4.5
	.44	-.025	.0075	.021	.058	.0065	-4.1		-.48	-.031	.0138	.010	.088	.0016	-3.9		12.29	.395	.0928	-.049	-.105	.0048	-4.6
	1.02	.001	.0074	.019	.058	.0066	-4.1		.52	.010	.0130	.004	.073	.0017	-4.0		14.35	.456	.1217	-.055	-.128	.0052	-4.7
	2.12	.058	.0088	.014	.054	.0065	-4.1		1.00	.031	.0134	0	.065	.0018	-4.0		16.40	.514	.1551	-.059	-.150	.0060	-4.8
	4.20	.168	.0169	.004	.049	.0068	-4.1		2.05	.075	.0155	-.008	.049	.0021	-4.1		17.43	.543	.1737	-.060	-.160	.0062	-4.8

NACA

TABLE XII.- CONTINUED



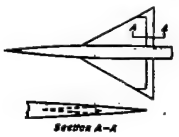
(e) Nominal δ, -8°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.24	-0.258	0.0235	0.039	0.072	0.0102	-8.1
	-2.14	-.170	.0147	.035	.068	.0112	-8.1
	-1.10	-.123	.0113	.034	.074	.0119	-8.1
	-.57	-.102	.0101	.033	.074	.0121	-8.1
	.40	-.060	.0086	.032	.079	.0121	-8.1
	.93	-.036	.0084	.031	.078	.0121	-8.1
	2.05	.012	.0088	.028	.073	.0116	-8.1
	4.18	.108	.0127	.022	.066	.0118	-8.1
	6.23	.204	.0222	.017	.059	.0121	-8.1
	8.34	.307	.0427	.011	.059	.0131	-8.2
	10.44	.406	.0690	.008	.065	.0123	-8.2
	12.57	.514	.1055	.007	.012	.0114	-8.8
	14.69	.626	.1503	.006	-.003	.0111	-8.3
	16.83	.755	.2140	0	-.022	.0143	-8.3
	17.89	.805	.2442	-.001	-.035	.0140	-8.3
0.80	-4.28	-.274	.0261	.045	.098	.0098	-8.0
	-2.16	-.176	.0150	.040	.093	.0119	-8.0
	-1.10	-.128	.0126	.038	.100	.0120	-7.9
	-.58	-.106	.0113	.037	.104	.0126	-7.9
	.39	-.062	.0094	.035	.107	.0127	-7.9
	.92	-.037	.0088	.033	.104	.0126	-7.9
	2.06	.017	.0090	.029	.091	.0123	-8.0
	4.22	.120	.0143	.022	.078	.0127	-8.0
	6.28	.222	.0265	.015	.065	.0133	-8.1
	8.41	.331	.0503	.008	.040	.0147	-8.1
	10.52	.433	.0802	.006	.024	.0121	-8.2
	12.66	.537	.1212	.001	.011	.0122	-8.2
	14.80	.648	.1695	-.006	-.001	.0124	-8.3
	16.92	.748	.2242	-.008	-.013	.0125	-8.3
	17.99	.795	.2544	-.009	-.023	.0127	-8.3
0.90	-4.28	-.281	.0280	.050	.130	.0096	-7.9
	-2.17	-.179	.0159	.043	.120	.0102	-7.9
	-1.10	-.128	.0121	.040	.141	.0116	-7.9
	-.58	-.103	.0110	.039	.152	.0120	-7.8
	.40	-.059	.0092	.035	.145	.0120	-7.9
	.95	-.030	.0090	.034	.147	.0121	-7.8
	2.07	.027	.0098	.029	.136	.0123	-7.9
	4.24	.136	.0157	.020	.113	.0126	-7.9
0.90	6.32	0.243	0.0300	0.012	0.110	0.0127	-8.0
	8.45	.342	.0533	.007	.080	.0126	-7.9
	10.58	.454	.0869	0	.115	.0127	-7.9
1.20	-4.12	-.252	.0321	.060	.274	.0078	-7.3
	-2.05	-.145	.0216	.042	.265	.0087	-7.4
	-1.02	-.095	.0181	.034	.262	.0091	-7.4
	-.50	-.069	.0169	.030	.257	.0091	-7.4
	.51	-.020	.0163	.026	.242	.0091	-7.5
	1.00	.008	.0168	.018	.232	.0090	-7.5
	2.03	.060	.0175	.010	.207	.0090	-7.6
	4.12	.161	.0245	-.008	.167	.0090	-7.7
	6.19	.266	.0387	-.025	.132	.0089	-7.8
	8.26	.375	.0617	-.042	.089	.0094	-8.0
	10.33	.479	.0915	-.058	.042	.0095	-8.1
	12.42	.590	.1320	-.076	-.006	.0099	-8.3
	14.50	.694	.1786	-.084	-.057	.0065	-8.4
1.30	-4.12	-.225	.0320	.050	.266	.0049	-7.4
	-2.05	-.126	.0214	.034	.243	.0058	-7.4
	-1.02	-.079	.0180	.027	.229	.0062	-7.5
	-.50	-.054	.0170	.023	.219	.0062	-7.5
	.46	-.008	.0162	.016	.202	.0065	-7.6
	1.03	.017	.0165	.012	.192	.0066	-7.6
	2.06	.064	.0180	.004	.172	.0070	-7.7
	4.12	.158	.0258	-.011	.133	.0074	-7.8
	6.18	.255	.0390	-.026	.092	.0075	-7.9
	8.25	.350	.0603	-.040	.047	.0074	-8.1
	10.32	.442	.0884	-.053	.004	.0076	-8.2
	12.39	.531	.1224	-.066	-.037	.0075	-8.4
	14.45	.617	.1627	-.078	-.075	.0073	-8.5
	16.53	.701	.2095	-.087	-.108	.0067	-8.6
	17.56	.741	.2350	-.092	-.125	.0057	-8.7
1.50	-4.11	-.199	.0305	.041	.222	.0033	-7.3
	-2.03	-.109	.0206	.027	.192	.0041	-7.4
	-1.02	-.069	.0176	.020	.178	.0045	-7.5
	-.50	-.042	.0165	.017	.168	.0047	-7.5
	.52	-.001	.0159	.011	.153	.0047	-7.6
	1.04	.022	.0163	.007	.146	.0051	-7.7
1.50	2.05	0.065	0.0179	0	0.189	0.0053	-7.7
	4.11	.152	.0249	-.014	.092	.0050	-7.9
	6.18	.239	.0377	-.027	.054	.0062	-8.0
	8.24	.322	.0567	-.039	.014	.0064	-8.2
	10.30	.405	.0819	-.050	-.023	.0066	-8.2
	12.36	.483	.1181	-.062	-.059	.0072	-8.0
	14.42	.559	.1677	-.071	-.091	.0075	-7.9
	16.49	.634	.1898	-.079	-.121	.0077	-7.7
	17.53	.670	.2119	-.083	-.131	.0072	-7.7
1.70	-4.10	-.180	.0284	.036	.192	.0027	-7.4
	-2.05	-.099	.0194	.023	.163	.0036	-7.6
	-1.02	-.059	.0168	.017	.149	.0039	-7.6
	-.48	-.039	.0159	.014	.140	.0041	-7.7
	.51	.007	.0154	.008	.126	.0043	-7.7
	1.08	.022	.0156	.005	.118	.0045	-7.7
	2.05	.061	.0171	-.002	.102	.0047	-7.8
	4.11	.140	.0237	-.013	.067	.0052	-8.0
	6.16	.217	.0354	-.025	.034	.0058	-8.1
	8.22	.293	.0527	-.035	.000	.0061	-8.3
	10.28	.366	.0753	-.045	-.032	.0066	-8.4
	12.33	.436	.1026	-.054	-.065	.0071	-8.5
	14.39	.504	.1341	-.062	-.093	.0076	-8.7
	16.54	.570	.1724	-.068	-.117	.0081	48.8
	17.58	.603	.1927	-.070	-.132	.0082	-8.9
1.90	-4.10	-.161	.0253	.029	.166	.0022	-7.7
	-2.05	-.089	.0172	.019	.141	.0030	-7.8
	-1.01	-.052	.0144	.014	.127	.0032	-7.8
	-.49	-.034	.0143	.011	.121	.0033	-7.8
	.51	.001	.0139	.006	.107	.0035	-7.9
	1.03	.020	.0141	.004	.100	.0036	-7.9
	2.08	.056	.0154	-.002	.086	.0039	-8.0
	4.09	.126	.0214	-.012	.054	.0044	-8.1
	6.14	.196	.0323	-.021	.024	.0049	-8.2
	8.19	.261	.0476	-.030	.004	.0053	-8.3
	10.24	.326	.0676	-.038	-.032	.0057	-8.4
	12.30	.392	.0925	-.045	-.059	.0064	-8.5
	14.35	.453	.1211	-.051	-.084	.0069	-8.5
	16.40	.513	.1546	-.055	-.106	.0076	-8.6
	17.43	.543	.1734	-.056	-.116	.0079	-8.7

(f) Nominal δ, -12°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.27	-0.289	0.0298	0.051	0.126	0.0084	-12.1
	-2.17	-.196	.0197	.047	.110	.0160	-12.1
	-1.11	-.153	.0161	.046	.111	.0172	-12.1
	-.59	-.134	.0147	.046	.113	.0176	-12.1
	.36	-.094	.0128	.046	.123	.0185	-12.1
	.88	-.072	.0119	.045	.123	.0184	-12.1
	1.96	-.022	.0115	.042	.116	.0180	-12.1
	4.15	.078	.0138	.036	.104	.0177	-12.1
	6.26	.175	.0218	.031	.094	.0178	-12.2
	8.32	.275	.0396	.025	.079	.0188	-12.2
	10.44	.379	.0665	.021	.064	.0181	-12.2
	12.54	.483	.1013	.020	.051	.0172	-12.2
	14.68	.599	.1475	.019	.036	.0171	-12.3
	16.82	.725	.2058	.012	.018	.0201	-12.3
	17.88	.776	.2355	.012	.008	.0197	-12.3
0.80	-4.29	-.288	.0317	.055	.179	.0127	-11.8
	-2.17	-.190	.0203	.049	.154	.0142	-11.9
	-1.12	-.146	.0166	.047	.162	.0157	-11.8
	-.59	-.126	.0154	.047	.171	.0163	-11.8
	.41	-.082	.0132	.045	.179	.0167	-11.8
	.95	-.005	.0186	.044	.177	.0166	-11.8
	2.05	-.059	.0124	.040	.161	.0167	-11.9
	4.15	.096	.0154	.032	.142	.0167	-11.9
	6.27	.198	.0261	.025	.127	.0173	-12.0
	8.40	.303	.0461	.017	.105	.0186	-12.0
	10.51	.393	.0732	.017	.091	.0161	-12.1
	12.65	.510	.1130	.011	.082	.0167	-12.1
	14.79	.622	.1632	.007	.090	.0179	-12.1
	16.95	.746	.2256	-.002	.114	.0272	-12.7
	17.99	.788	.2535	-.003	.122	.0284	-12.7
0.90	-4.42	-.301	.0350	.061	.232	.0126	-11.7
	-2.86	-.198	.0215	.053	.195	.0137	-11.8
	-1.17	-.151	.0175	.051	.209	.0151	-11.8
	-.59	-.128	.0158	.051	.223	.0161	-11.7
	.36	-.080	.0137	.047	.221	.0161	-11.7
	.88	-.054	.0131	.045	.220	.0160	-11.7
	2.05	.004	.0132	.040	.203	.0162	-11.8
	4.38	.115	.0179	.031	.182	.0166	-11.8
0.90	6.41	0.223	0.0312	0.023	0.172	0.0161	-11.9
	8.56	.324	.0537	.017	.177	.0156	-11.9
	10.74	.431	.0866	.009	.195	.0161	-11.8
1.20	-4.12	-.198	.0376	.071	.342	.0122	-11.0
	-2.07	-.166	.0258	.054	.341	.0136	-11.0
	-1.02	-.116	.0220	.047	.342	.0142	-11.0
	-.51	-.091	.0206	.043	.339	.0146	-11.0
	.50	-.042	.0192	.035	.329	.0144	-11.0
	1.02	-.015	.0190	.031	.322	.0143	-11.1
	2.04	.040	.0198	.022	.299	.0139	-11.2
	4.12	.143	.0261	.003	.254	.0136	-11.3
	6.19	.246	.0396	-.013	.216	.0134	-11.5
	8.27	.354	.0615	-.031	.180	.0135	-11.6
	10.34	.467	.0910	-.047	.138	.0134	-11.8
	12.42	.573	.1287	-.066	.090	.0135	-12.0
	14.51	.692	.1793	-.082	.039	.0140	-12.2
1.30	-4.12	-.239	.0381	.060	.340	.0086	-11.2
	-2.05	-.141	.0269	.044	.329	.0098	-11.2
	-1.02	-.095	.0233	.051	.321	.0102	-11.3
	-.51	-.069	.0219	.033	.313	.0103	-11.3
	.46	-.025	.0207	.026	.299	.0106	-11.3
	1.03	.001	.0208	.022	.291	.0107	-11.4
	2.10	.051	.0219	.014	.262	.0107	-11.5
	4.12	.146	.0283	-.002	.219	.0111	-11.6
	6.19	.242	.0414	-.017	.179	.0110	-11.7
	8.26	.336	.0615	-.031	.136	.0107	-11.9
	10.32	.430	.0887	-.045	.090	.0105	-12.0
	12.40	.521	.1223	-.059	.047	.0103	-12.2
	14.47	.606	.1617	-.069	.005	.0101	-12.3
	16.54	.689	.2075	-.080	-.033	.0093	-12.5
	17.57	.731	.2331	-.085	-.050	.0084	-12.5
1.50	-4.12	-.210	.0345	.049	.298	.0061	-11.1
	-2.05	-.119	.0240	.034	.271	.0070	-11.2
	-1.02	-.076	.0205	.027	.259	.0073	-11.2
	-.49	-.053	.0193	.024	.249	.0075	-11.3
	.46	-.011	.0183	.018	.233	.0076	-11.3
	1.04	.012	.0186	.014	.227	.0078	-11.4
1.50	2.13	0.057	0.0200	0.015	0.207	0.0081	-11.5
	4.12	.143	.0264	-.007	.167	.0084	-11.6
	6.18	.230	.0386	-.021	.128	.0087	-11.8
	8.25	.312	.0569	-.033	.087	.0088	-12.0
	10.31	.395	.0818	-.044	.048	.0089	-12.1
	12.37	.474	.1118	-.056	.009	.0093	-12.3
	14.44	.550	.1464	-.065	-.026	.0096	-12.2
	16.50	.625	.1872	-.073	-.059	.0098	-12.1
	17.54	.661	.2095	-.076	-.075	.0093	-12.0
1.70	-4.11	-.188	.0318	.041	.253	.0047	-11.3
	-2.05	-.106	.0221	.028	.226	.0056	-11.4
	-1.02	-.067	.0193	.023	.213	.0060	-11.4
	-.49	-.046	.0183	.019	.205	.0061	-11.5
	.45	-.008	.0175	.014	.191	.0063	-11.5
	1.03	.013	.0176	.011	.184	.0065	-11.6
	2.04	.054	.0186	.004	.168	.0065	-11.6
	4.11	.132	.0249	-.008	.131	.0071	-11.8
	6.16	.209	.0362	-.020	.095	.0078	-11.9
	8.22	.284	.0527	-.030	.060	.0079	-12.1
	10.29	.357	.0748	-.040	.025	.0083	-12.2
	12.34	.427	.1010	-.049	-.009	.0087	-12.4
	14.39	.495	.1323	-.058	-.040	.0092	-12.5
	16.46	.560	.1687	-.062	-.064	.0096	-12.6
	17.49	.593	.1890	-.065	-.078	.0096	-12.7
1.90	-4.10	-.168	.0899	.034	.220	.0040	-11.6
	-2.05	-.095	.0214	.024	.197	.0047	-11.7
	-1.02	-.058	.0190	.018	.184	.0051	-11.7
	-.49	-.040	.0181	.016	.177	.0052	-11.7
	.46	-.007	.0173	.011	.169	.0053	-11.8
	1.03	.012	.0174	.008	.157	.0054	-11.8
	2.04	.049	.0184	.003	.142	.0057	-11.8
	4.10	.119	.0240	-.007	.110	.0061	-12.0
	6.14	.188	.0341	-.017	.075	.0065	-12.1
	8.20	.253	.0486	-.026	.040	.0070	-12.2
	10.24	.318	.0680	-.034	.015	.0072	-12.3
	12.30	.383	.0921	-.041	.013	.0080	-12.4
	14.36	.446	.1206	-.047	.040	.0084	-12.5
	16.42	.505	.1537	-.051	.060	.0091	-12.6
	17.45	.535	.1720	-.053	.070	.0094	-12.6

TABLE XII.- CONTINUED



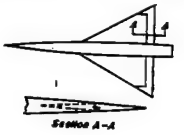
(g) Nominal δ, -16°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.26	-0.304	0.0358	0.058	0.208	0.0179	-15.8
	-2.18	-.213	.0247	.054	.189	.0191	-15.9
	-1.13	-.174	.0212	.054	.184	.0206	-15.9
	-.61	-.154	.0196	.053	.187	.0211	-15.9
	.33	-.116	.0174	.054	.191	.0222	-15.9
	.87	-.095	.0168	.054	.199	.0227	-15.8
	1.92	-.047	.0155	.051	.189	.0226	-15.9
	4.12	.058	.0166	.043	.176	.0222	-15.9
	6.25	.149	.0228	.040	.164	.0222	-15.9
	8.35	.249	.0383	.034	.150	.0231	-15.9
	10.41	.347	.0626	.032	.133	.0229	-16.0
	12.52	.448	.0975	.031	.117	.0222	-16.0
	14.64	.560	.1420	.030	.100	.0220	-16.0
	16.80	.692	.2005	.029	.080	.0248	-16.1
	17.86	.749	.2313	.025	.070	.0248	-16.1
0.80	-4.30	-.309	.0381	.061	.250	.0151	-15.6
	-2.19	-.218	.0253	.056	.228	.0168	-15.7
	-1.13	-.170	.0215	.055	.225	.0186	-15.7
	-.61	-.147	.0199	.054	.229	.0193	-15.7
	.34	-.105	.0177	.053	.237	.0202	-15.6
	.88	-.080	.0169	.052	.238	.0201	-15.6
	1.96	-.028	.0162	.048	.228	.0200	-15.7
	4.17	.074	.0180	.041	.212	.0203	-15.7
	6.31	.185	.0286	.033	.200	.0207	-15.7
	8.39	.290	.0477	.035	.178	.0212	-15.8
	10.51	.366	.0751	.025	.158	.0185	-15.8
	12.65	.500	.1146	.017	.145	.0189	-15.9
	14.77	.608	.1606	.013	.137	.0198	-15.9
	16.93	.733	.2224	.004	.140	.0290	-15.9
	18.00	.779	.2540	.001	.164	.0317	-15.8
0.90	-4.31	-.318	.0416	.069	.294	.0155	-15.4
	-2.19	-.218	.0267	.062	.261	.0166	-15.5
	-1.13	-.172	.0226	.060	.269	.0185	-15.5
	-.61	-.147	.0207	.059	.268	.0190	-15.5
	.35	-.105	.0187	.057	.284	.0201	-15.5
	.88	-.079	.0178	.053	.285	.0202	-15.4
	1.98	-.020	.0169	.049	.266	.0201	-15.5
	4.21	.092	.0199	.039	.232	.0199	-15.6
0.90	6.34	0.206	0.0326	0.029	0.213	0.0191	-15.7
	8.43	.313	.0556	.023	.208	.0178	-15.7
	10.57	.416	.0873	.017	.225	.0185	-15.6
	12.70	.522	.1281	.007	.239	.0189	-15.1
1.20	-4.12	-.285	.0438	.080	.407	.0160	-14.9
	-2.06	-.189	.0315	.064	.413	.0179	-14.9
	-1.02	-.137	.0274	.057	.417	.0188	-14.9
	-.51	-.110	.0258	.053	.414	.0191	-14.9
	.43	-.062	.0239	.045	.403	.0192	-14.9
	.96	-.036	.0235	.041	.400	.0193	-14.9
	2.08	.019	.0235	.032	.376	.0189	-15.0
	4.17	.186	.0290	.014	.344	.0181	-15.1
	6.20	.230	.0416	-.004	.289	.0177	-15.3
	8.27	.335	.0685	-.021	.260	.0181	-15.4
	10.35	.444	.0919	-.037	.221	.0173	-15.5
	12.42	.556	.1289	-.057	.174	.0173	-15.7
1.30	-4.12	-.252	.0193	.068	.391	.0121	-14.9
	-2.05	-.157	.0318	.053	.391	.0137	-14.9
	-1.02	-.109	.0273	.045	.387	.0142	-14.9
	-.50	-.086	.0261	.041	.382	.0144	-14.9
	.45	-.041	.0245	.034	.371	.0147	-15.0
	.97	-.016	.0243	.031	.367	.0149	-15.0
	2.09	.036	.0247	.022	.336	.0145	-15.1
	4.13	.132	.0303	.006	.291	.0145	-15.2
	6.19	.227	.0427	-.009	.251	.0144	-15.4
	8.26	.321	.0621	-.023	.210	.0141	-15.5
	10.33	.417	.0889	-.037	.171	.0136	-15.7
	12.40	.505	.1213	-.050	.127	.0134	-15.8
	14.47	.593	.1603	-.062	.086	.0130	-16.0
	16.54	.677	.2056	-.073	.041	.0119	-16.1
	17.57	.719	.2306	-.077	.021	.0108	-16.2
1.50	-4.11	-.218	.0387	.054	.358	.0089	-15.0
	-2.05	-.131	.0280	.041	.342	.0099	-15.0
	-1.02	-.087	.0243	.034	.331	.0103	-15.1
	-.50	-.065	.0230	.030	.325	.0105	-15.1
	.45	-.024	.0217	.024	.314	.0107	-15.1
	1.03	.004	.0218	.020	.306	.0109	-15.1
1.50	2.10	0.045	0.0225	0.014	0.288	0.0110	-15.2
	4.12	.132	.0283	-.001	.241	.0112	-15.4
	6.18	.218	.0398	-.015	.197	.0113	-15.5
	8.25	.301	.0577	-.027	.159	.0114	-15.7
	10.31	.385	.0817	-.039	.118	.0114	-15.8
	12.37	.463	.1106	-.049	.078	.0117	-16.0
	14.43	.540	.1450	-.059	.040	.0118	-16.1
	16.51	.615	.1858	-.067	.005	.0118	16.2
	17.54	.652	.2078	-.072	-.015	.0112	-16.3
1.70	-4.11	-.195	.0359	.046	.314	.0070	-15.2
	-2.04	-.115	.0258	.033	.291	.0079	-15.2
	-1.02	-.076	.0227	.028	.280	.0083	-15.2
	-.50	-.056	.0216	.025	.272	.0084	-15.3
	.45	-.017	.0207	.019	.260	.0086	-15.3
	1.04	.004	.0205	.015	.253	.0088	-15.3
	2.09	.045	.0215	.009	.236	.0091	-15.4
	4.10	.123	.0269	-.003	.196	.0094	-15.5
	6.16	.200	.0376	-.015	.156	.0098	-15.7
	8.22	.276	.0535	-.025	.120	.0100	-15.8
	10.28	.351	.0758	-.035	.085	.0103	-15.9
	12.35	.430	.1014	-.045	.047	.0105	-16.1
	14.40	.487	.1320	-.053	.013	.0110	-16.2
	16.46	.558	.1678	-.058	-.012	.0114	-16.3
	17.50	.586	.1880	-.060	-.029	.0114	-16.4
1.90	-4.10	-.174	.0332	.038	.273	.0059	-15.3
	-2.05	-.101	.0243	.027	.251	.0067	-15.3
	-1.02	-.066	.0216	.022	.239	.0069	-15.4
	-.50	-.049	.0207	.020	.233	.0071	-15.4
	.45	-.014	.0197	.015	.220	.0073	-15.5
	1.03	.005	.0197	.013	.213	.0074	-15.5
	2.08	.043	.0206	.007	.199	.0076	-15.5
	4.10	.112	.0256	-.003	.166	.0080	-15.7
	6.15	.181	.0352	-.013	.129	.0083	-15.8
	8.21	.254	.0506	-.021	.096	.0087	-15.9
	10.25	.312	.0685	-.030	.066	.0089	-16.0
	12.31	.378	.0922	-.037	.032	.0096	-16.1
	14.36	.440	.1199	-.043	.004	.0100	-16.2
	16.42	.499	.1527	-.047	-.016	.0107	-16.3
	17.45	.526	.1710	-.048	-.026	.0109	-16.4

(h) Nominal δ, -20°

M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.24	-0.318	0.0394	0.062	0.253	0.0187	-19.6
	-2.23	-.230	.0280	.059	.239	.0210	-19.7
	-1.14	-.185	.0235	.058	.228	.0217	-19.7
	-.62	-.163	.0221	.058	.228	.0228	-19.7
	.33	-.131	.0198	.059	.233	.0243	-19.7
	.85	-.109	.0186	.059	.229	.0245	-19.7
	1.91	-.067	.0176	.057	.232	.0251	-19.7
	4.09	.031	.0180	.051	.216	.0247	-19.7
	6.22	.128	.0238	.049	.209	.0244	-19.7
	8.34	.235	.0390	.038	.197	.0249	-19.8
	10.44	.334	.0611	.036	.188	.0247	-19.8
	12.50	.426	.0936	.035	.179	.0249	-19.8
	14.62	.538	.1371	.037	.167	.0250	-19.8
	16.76	.663	.1965	.031	.148	.0279	-19.9
	17.82	.707	.2234	.031	.138	.0279	-19.9
0.80	-4.32	-.321	.0435	.067	.294	.0166	-19.4
	-2.19	-.228	.0305	.062	.276	.0191	-19.5
	-1.15	-.184	.0261	.061	.266	.0204	-19.5
	-.62	-.163	.0245	.061	.268	.0214	-19.5
	.32	-.123	.0217	.059	.261	.0223	-19.5
	.86	-.099	.0209	.059	.270	.0230	-19.5
	1.93	-.049	.0199	.055	.269	.0231	-19.5
	4.14	.054	.0210	.048	.254	.0234	-19.5
	6.29	.168	.0297	.039	.234	.0230	-19.6
	8.42	.273	.0488	.030	.214	.0232	-19.6
	10.48	.370	.0744	.026	.192	.0198	-19.7
	12.62	.483	.1126	.020	.172	.0195	-19.7
	14.75	.593	.1587	.016	.167	.0204	-19.7
	16.90	.720	.2195	.004	.151	.0281	-19.8
	17.97	.770	.2517	.002	.146	.0304	-19.8
0.90	-4.32	-.336	.0485	.077	.364	.0178	-19.2
	-2.20	-.236	.0329	.070	.344	.0190	-19.2
	-1.14	-.191	.0282	.068	.339	.0210	-19.2
	-.62	-.167	.0265	.067	.342	.0219	-19.2
	.33	-.128	.0227	.063	.324	.0222	-19.3
	.87	-.096	.0219	.061	.326	.0224	-19.3
	1.95	-.043	.0214	.058	.336	.0235	-19.2
	4.18	.070	.0228	.047	.302	.0234	-19.3
0.90	6.32	0.188	0.0341	0.036	0.273	0.0218	-19.4
	8.41	.295	.0545	.026	.237	.0185	-19.5
	10.54	.402	.0862	.019	.230	.0186	-19.5
	12.67	.512	.1291	.011	.254	.0200	-19.5
	14.80	.613	.1751	.003	.265	.0215	-19.4
1.20	-4.23	-.302	.0511	.089	.458	.0190	-18.6
	-2.06	-.202	.0377	.073	.466	.0214	-18.6
	-1.03	-.154	.0333	.067	.475	.0226	-18.6
	-.50	-.129	.0316	.063	.473	.0229	-18.6
	.43	-.081	.0298	.055	.464	.0234	-18.6
	.95	-.055	.0287	.051	.460	.0236	-18.6
	2.06	.002	.0280	.041	.435	.0226	-18.7
	4.18	.112	.0326	.022	.388	.0221	-18.9
	6.19	.216	.0442	.004	.339	.0211	-19.0
	8.26	.320	.0648	-.013	.317	.0218	-19.1
	10.33	.423	.0920	-.030	.286	.0208	-19.2
	12.40	.535	.1286	-.051	.241	.0203	-19.4
1.30	-4.19	-.263	.0491	.075	.431	.0149	-18.7
	-2.05	-.170	.0372	.060	.437	.0169	-18.7
	-1.02	-.124	.0330	.053	.436	.0175	-18.7
	-.51	-.100	.0314	.049	.432	.0177	-18.7
	.44	-.055	.0294	.042	.425	.0183	-18.7
	.97	-.031	.0290	.039	.422	.0185	-18.7
	2.07	.022	.0285	.030	.397	.0179	-18.8
	4.17	.120	.0333	.013	.398	.0177	-19.0
	6.18	.215	.0452	-.003	.395	.0178	-19.1
	8.26	.309	.0643	-.017	.264	.0169	-19.2
	10.25	.403	.0896	-.031	.228	.0164	-19.4
	12.39	.494	.1222	-.045	.189	.0160	-19.5
	14.45	.579	.1602	-.057	.141	.0156	-19.7
	16.52	.659	.2033	-.069	.093	.0156	-19.8
	17.56	.707	.2298	-.073	.079	.0130	-19.9
1.50	-4.18	-.227	.0434	.060	.387	.0111	-18.8
	-2.10	-.140	.0322	.047	.378	.0123	-18.8
	-1.06	-.096	.0285	.040	.373	.0130	-18.8
	-.53	-.073	.0270	.037	.367	.0130	-18.8
	.42	-.034	.0253	.030	.359	.0134	-18.9
	.96	-.010	.0252	.027	.355	.0136	-18.9
1.50	2.01	0.035	0.0256	0.019	0.325	0.0135	-19.0
	4.12	.123	.0307	.005	.284	.0135	-19.1
	6.18	.209	.0419	-.009	.243	.0137	-19.3
	8.24	.292	.0593	-.022	.212	.0136	-19.4
	10.30	.375	.0827	-.034	.174	.0135	-19.5
	12.36	.454	.1113	-.045	.131	.0137	-19.7
	14.53	.531	.1464	-.056	.089	.0138	-19.8
	16.50	.606	.1855	-.064	.051	.0135	-20.0
	17.53	.644	.2077	-.068	.033	.0129	-20.0
1.70	-4.10	-.203	.0304	.051	.352	.0090	-18.9
	-2.05	-.123	.0252	.038	.333	.0099	-19.0
	-1.02	-.084	.0260	.032	.322	.0103	-19.0
	-.50	-.062	.0247	.029	.315	.0105	-19.0
	.44	-.029	.0237	.023	.305	.0107	-19.1
	.98	-.005	.0236	.020	.300	.0108	-19.1
	2.08	.038	.0242	.014	.283	.0111	-19.1
	4.10	.116	.0290	.001	.238	.0113	-19.3
	6.16	.194	.0393	-.011	.195	.0117	-19.5
	8.22	.268	.0548	-.022	.162	.0118	-19.6
	10.27	.342	.0760	-.031	.133	.0119	-19.7
	12.33	.413	.1016	-.041	.092	.0122	-19.8
	14.39	.481	.1320	-.050	.055	.0126	-20.0
	16.45	.547	.1677	-.056	.029	.0129	-20.0
	17.49	.581	.1880	-.058	.011	.0129	-20.1
1.90	-4.09	-.180	.0376	.042	.316	.0076	-19.0
	-2.04	-.108	.0280	.031	.295	.0083	-19.1
	-1.02	-.072	.0251	.026	.283	.0086	-19.2
	-.49	-.054	.0241	.024	.276	.0087	-19.2
	.45	-.020	.0230	.019	.263	.0088	-19.2
	1.02	-.002	.0227	.016	.256	.0089	-19.3
	2.07	.035	.0232	.011	.242	.0092	-19.3
	4.09	.106	.0278	0	.206	.0095	-19.4
	6.15	.175	.0370	-.010	.167	.0098	-19.6
	8.19	.241	.0508	-.019	.132	.0102	-19.7
	10.25	.307	.0696	-.027	.101	.0104	-19.8
	12.30	.372	.0927	-.035	.068	.0108	-19.9
	14.36	.434	.1205	-.041	.037	.0112	-20.0
	16.41	.494	.1527	-.045	.015	.0119	-20.1
	17.44	.524	.1710	-.046	.004	.0122	-20.1

TABLE XII.- CONCLUDED



(i) Nominal δ, -24°

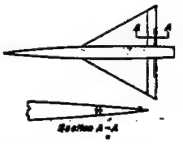
M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.29	-0.325	0.0457	0.066	0.264	0.0195	-23.8	0.90	6.32	0.176	0.0363	0.041	0.303	0.0244	-23.5	1.50	4.12	0.114	0.0334	0.009	0.305	0.0157	-23.3
	-2.19	-.238	.0341	.063	.268	.0220	-23.8		8.46	.286	.0567	.031	.276	.0205	-23.6		6.17	.200	.0443	-.005	.269	.0139	-23.4
	-1.15	-.199	.0301	.063	.269	.0240	-23.8		10.59	.393	.0854	.021	.239	.0188	-23.7		8.23	.281	.0612	-.017	.250	.0159	-23.5
	-.63	-.176	.0282	.062	.263	.0241	-23.8										10.30	.367	.0845	-.029	.216	.0156	-23.6
	.31	-.140	.0255	.062	.259	.0252	-23.8	1.20	-4.13	-.317	.0579	.095	.300	.0211	-22.7		12.36	.446	.1127	-.041	.179	.0156	-23.7
	.84	-.119	.0246	.062	.257	.0258	-23.8		-2.06	-.218	.0445	.081	.309	.0243	-22.7		14.42	.522	.1462	-.051	.134	.0157	-23.9
	1.89	-.077	.0237	.062	.251	.0269	-23.8		-1.03	-.171	.0402	.075	.321	.0259	-22.7		16.48	.599	.1861	-.060	.099	.0154	-24.0
	4.08	.019	.0235	.057	.252	.0276	-23.8		-.51	-.147	.0383	.072	.323	.0264	-22.7		17.52	.635	.2079	-.064	.085	.0148	-23.1
	6.21	.113	.0278	.052	.243	.0275	-23.9		.42	-.100	.0355	.064	.317	.0271	-22.7								
	8.32	.219	.0416	.044	.230	.0277	-23.9		.94	-.073	.0348	.060	.316	.0272	-22.7	1.70	-4.10	-.209	.0435	.054	.363	.0108	-23.0
	10.44	.322	.0634	.042	.223	.0276	-23.9		2.00	-.018	.0334	.050	.288	.0264	-22.8		-2.05	-.131	.0329	.042	.365	.0118	-23.0
	12.54	.421	.0932	.042	.215	.0269	-23.9		4.17	.095	.0367	.029	.427	.0250	-23.0		-1.02	-.091	.0295	.036	.355	.0122	-23.1
	14.61	.523	.1359	.040	.202	.0262	-23.9		6.19	.201	.0479	.010	.379	.0241	-23.1		-.50	-.070	.0282	.033	.348	.0124	-23.1
	16.73	.654	.1819	.034	.186	.0287	-24.0		8.26	.304	.0671	-.007	.358	.0248	-23.2		.49	-.033	.0267	.026	.337	.0126	-23.1
	17.82	.706	.2087	.033	.175	.0285	-24.0		10.33	.411	.0951	-.021	.338	.0247	-23.3		1.02	-.011	.0266	.025	.333	.0127	-23.2
									12.40	.523	.1305	-.041	.292	.0249	-23.4		2.07	.089	.0270	.016	.317	.0130	-23.2
0.80	-4.32	-.331	.0488	.071	.332	.0180	-23.5										4.10	.109	.0311	.005	.263	.0132	-23.4
	-2.20	-.239	.0354	.057	.317	.0205	-23.6	1.30	-4.12	-.274	.0549	.080	.361	.0173	-22.8		6.15	.187	.0410	-.007	.217	.0139	-23.6
	-1.16	-.196	.0311	.056	.314	.0225	-23.6		-2.05	-.181	.0428	.066	.471	.0197	-22.8		8.21	.261	.0564	-.017	.193	.0136	-23.7
	-.63	-.179	.0294	.056	.311	.0230	-23.6		-1.02	-.137	.0386	.059	.477	.0205	-22.8		10.26	.335	.0777	-.027	.173	.0136	-23.7
	.32	-.135	.0266	.054	.308	.0239	-23.6		-.51	-.113	.0369	.055	.475	.0208	-22.8		12.32	.408	.1031	-.037	.135	.0139	-23.9
	.85	-.114	.0253	.053	.299	.0252	-23.6		.43	-.071	.0347	.049	.470	.0215	-22.8		14.37	.477	.1331	-.046	.093	.0141	-24.0
	1.91	-.069	.0243	.051	.303	.0257	-23.6		.95	-.046	.0342	.046	.469	.0219	-22.8		16.43	.542	.1687	-.052	.070	.0145	-24.1
	4.13	.037	.0250	.055	.293	.0265	-23.6		2.07	.009	.0327	.035	.420	.0208	-22.9		17.46	.577	.1888	-.054	.053	.0145	-24.2
	6.28	.148	.0327	.045	.270	.0257	-23.7		4.17	.108	.0368	.018	.362	.0204	-23.1								
	8.40	.260	.0509	.036	.247	.0255	-23.7		6.18	.203	.0480	.002	.321	.0201	-23.3	1.90	-4.10	-.187	.0419	.046	.361	.0094	-23.1
	10.48	.362	.0765	.033	.221	.0218	-23.8		8.25	.296	.0667	-.011	.307	.0200	-23.3		-2.05	-.115	.0316	.035	.340	.0101	-23.2
	12.61	.474	.1130	.024	.197	.0210	-23.9		10.32	.393	.0914	-.026	.272	.0198	-23.4		-1.02	-.079	.0283	.030	.326	.0103	-23.2
	14.75	.584	.1586	.020	.190	.0216	-23.9		12.38	.483	.1234	-.039	.233	.0186	-23.6		-.51	-.061	.0272	.027	.320	.0104	-23.2
	16.91	.720	.2211	.007	.166	.0282	-23.9		14.45	.566	.1607	-.050	.199	.0194	-23.7		.44	-.026	.0257	.023	.305	.0105	-23.3
	17.97	.767	.2504	.003	.149	.0289	-24.0		16.52	.659	.2063	-.063	.146	.0163	-23.9		.97	-.008	.0253	.020	.295	.0106	-23.3
									17.55	.699	.2306	-.068	.133	.0154	-23.9		2.07	.030	.0257	.014	.279	.0108	-23.4
0.90	-4.34	-.342	.0528	.079	.397	.0184	-23.3										4.09	.101	.0298	.004	.239	.0111	-23.5
	-2.21	-.245	.0378	.074	.383	.0205	-23.3	1.50	-4.11	-.208	.0479	.064	.415	.0130	-22.9		6.14	.171	.0286	-.007	.194	.0114	-23.7
	-1.16	-.198	.0320	.070	.366	.0219	-23.3		-2.05	-.236	.0364	.050	.405	.0144	-22.9		8.19	.237	.0293	-.016	.162	.0117	-23.8
	-.63	-.175	.0301	.069	.365	.0226	-23.3		-1.02	-.108	.0326	.044	.402	.0150	-23.0		10.24	.303	.0709	-.024	.138	.0119	-23.9
	.32	-.135	.0276	.068	.360	.0238	-23.4		-.50	-.066	.0310	.041	.397	.0153	-23.0		12.30	.370	.0942	-.031	.109	.0122	-24.0
	.85	-.110	.0264	.067	.357	.0243	-23.4		.43	-.045	.0293	.035	.391	.0157	-23.0		14.35	.431	.1212	-.038	.069	.0125	-24.1
	1.93	-.058	.0252	.063	.360	.0254	-23.4		.97	-.023	.0290	.032	.388	.0161	-23.0		16.40	.492	.1538	-.042	.048	.0132	-24.2
	4.17	.053	.0265	.054	.345	.0265	-23.4		2.08	.026	.0286	.023	.349	.0156	-23.1		17.44	.522	.1722	-.043	.038	.0134	-24.2

(j) Nominal δ, -28°

M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ	M	α	C_L	C_D	C_m	C_h	C_l	δ
0.60	-4.34	-0.338	0.0511	0.070	0.328	0.2052	-27.7	0.90	8.45	0.282	0.0611	0.036	0.310	0.2320	-27.5	1.50	4.16	0.110	0.0355	0.012	0.314	0.0175	-27.3
	-2.18	-.241	.0324	.066	.311	.2304	-27.7		10.59	.358	.0928	.024	.283	.2100	-27.5		6.16	.195	.0458	-.001	.282	.0175	-27.4
	-1.15	-.202	.0344	.066	.311	.2461	-27.7		12.78	.506	.1314	.013	.256	.2080	-27.6		8.22	.276	.0628	-.013	.258	.0178	-27.4
	-.69	-.188	.0326	.066	.311	.2549	-27.7										10.28	.361	.0857	-.025	.236	.0176	-27.5
	.32	-.148	.0306	.067	.309	.2789	-27.7	1.20	-4.13	-.327	.0635	.100	.336	.0224	-26.6		12.34	.441	.1137	-.036	.202	.0176	-27.6
	.83	-.126	.0297	.067	.307	.2830	-27.7		-2.07	-.229	.0500	.086	.345	.0260	-26.6		14.40	.517	.1466	-.047	.157	.0174	-27.8
	1.90	-.082	.0282	.065	.298	.2897	-27.7		-1.03	-.184	.0459	.081	.363	.0280	-26.5		16.46	.591	.1856	-.056	.130	.0171	-27.9
	4.06	.005	.0284	.063	.301	.3116	-27.7		-.51	-.159	.0438	.077	.365	.0287	-26.5		17.49	.629	.2079	-.059	.122	.0165	-27.9
	6.13	.099	.0318	.058	.296	.3151	-27.7		.41	-.113	.0410	.070	.362	.0296	-26.5								
	8.32	.208	.0456	.051	.284	.3143	-27.8		.93	-.087	.0400	.066	.361	.0299	-26.5	1.70	-4.10	-.215	.0451	.058	.401	.0120	-26.8
	10.43	.310	.0954	.047	.270	.3069	-27.8		2.05	-.030	.0377	.055	.325	.0290	-26.6		-2.04	-.136	.0340	.045	.382	.0206	-26.9
	12.55	.419	.1004	.046	.254	.2904	-27.8		4.17	.087	.0357	.032	.449	.0268	-26.9		-1.02	-.096	.0304	.039	.373	.0112	-26.9
	14.62	.525	.1410	.044	.240	.2823	-27.9		6.19	.191	.0499	.015	.409	.0265	-27.0		-.50	-.076	.0290	.036	.367	.0114	-27.0
	16.75	.647	.1948	.038	.223	.3048	-27.9		8.25	.296	.0693	-.002	.383	.0269	-27.1		.45	-.040	.0275	.031	.353	.0115	-27.0
	17.82	.699	.2251	.031	.212	.3013	-27.9		10.33	.402	.0970	-.016	.371	.0269	-27.1		.97	-.017	.0271	.028	.348	.0117	-27.0
									12.41	.515	.1320	-.036	.331	.0272	-27.3		2.08	.024	.0274	.021	.329	.0118	-27.1
0.80	-4.32	-.338	.0509	.074	.362	.0149	-27.4										4.11	.103	.0314	.008	.277	.0120	-27.3
	-2.21	-.247	.0371	.072	.350	.0173	-27.4	1.30	-4.12	-.278	.0609	.083	.498	.0081	-26.7		6.16	.182	.0409	-.004	.231	.0122	-27.5
	-1.16	-.209	.0327	.070	.353	.0188	-27.4		-2.05	-.188	.0492	.070	.512	.0194	-26.6		8.22	.256	.0564	-.014	.210	.0123	-27.6
	-.64	-.184	.0310	.069	.356	.0199	-27.4		-1.02	-.143	.0450	.063	.516	.0229	-26.6		10.27	.328	.0774	-.024	.198	.0126	-27.6
	.31	-.146	.0283	.069	.350	.0209	-27.4		-.51	-.119	.0431	.060	.517	.0233	-26.6		12.33	.403	.1032	-.033	.167	.0126	-27.7
	.84	-.124	.0269	.068	.343	.0211	-27.4		.46	-.076	.0409	.054	.514	.0241	-26.6		14.39	.472	.1331	-.042	.117	.0126	-27.9
	1.91	-.076	.0256	.066	.336	.0220	-27.4		.96	-.052	.0403	.050	.511	.0245	-26.6		16.44	.537	.1687	-.048	.099	.0130	-28.0
	4.11	.085	.0263	.061	.333	.0234	-27.4		2.06	.003	.0376	.039	.452	.0232	-26.8		17.47	.570	.1882	-.051	.084	.0130	-28.0
	6.26	.137	.0339	.051	.307	.0288	-27.5		4.17	.103	.0409	.021	.382	.0226	-27.1								
	8.41	.253	.0563	.041	.283	.0229	-27.6		6.18	.197	.0516	.006	.348	.0225	-27.2	1.90	-4.09	-.191	.0447	.048	.372	.0109	-27.1
	10.53	.357	.0782	.036	.254	.0193	-27.7		8.25	.288	.0700	-.006	.333	.0226	-27.2		-2.04	-.119	.0345	.038	.348	.0115	-27.1
	12.61	.467	.1138	.029	.231	.0184	-27.7		10.32	.382	.0949	-.020	.306	.0222	-27.3		-1.01	-.084	.0306	.033	.335	.0117	-27.2
	14.76	.588	.1606	.024	.223	.0178	-27.7		12.39	.471	.1257	-.034	.267	.0222	-27.5		-.50	-.065	.0300	.030	.328	.0118	-27.2
	16.91	.722	.2237	.008	.190	.0236	-27.8		14.31	.558	.1614	-.045	.228	.0218	-27.6		.44	-.032	.0284	.025	.314	.0120	-27.3
	17.98	.774	.2542	.004	.165	.0238	-27.9		16.32	.650	.2080	-.059	.185	.0185	-27.7		.97	-.013	.0280	.022	.305	.0120	-27.3
									17.56	.690	.2358	-.063	.175	.0175	-27.8		2.07	.025	.0280	.017	.288	.0122	-27.3
0.90	-4.34	-.348	.0583	.083	.440	.1971	-27.1										4.10	.095	.0319	.007	.248	.0124	-27.5
	-2.21	-.253	.0431	.078	.425	.2200	-27.2	1.50	-4.11	-.241	.0517	.067	.442	.0148	-26.8		6.14	.165	.0402	-.004	.202	.0126	-27.6
	-1.16	-.206	.0381	.076	.426	.2414	-27.2		-2.05	-.156	.0400	.054	.430	.0161	-26.9		8.19	.231	.0537	-.013	.176	.0130	-27.7
	-.63	-.189	.0363	.075	.425	.2504	-27.2		-1.02	-.113	.0362	.048	.427	.0169	-26.9		10.24	.295	.0721	-.020	.161	.0133	-27.8
	.31	-.143	.0338	.073	.417	.2604	-27.2		-.50	-.088	.0345	.044	.425	.0171	-26.9		12.30	.362	.0951	-.028	.134	.0135	-27.9
	.97	-.119	.0315	.072	.411	.2639	-27.2		.48	-.051	.0327	.039	.417	.0176	-26.9		14.35	.429	.1220	-.034	.092	.0136	-28.0
	1.92	-.066	.0308	.068	.404	.2779	-27.2		1.01	-.028	.0320	.035	.409	.0178	-26.9		16.41	.484	.1540	-.039	.073	.0144	-28.1
	4.11	.043	.0303	.058	.381	.2699	-27.3		2.07	.020	.0315	.027	.373	.0176	-27.1		17.44	.515	.1722	-.040	.069	.0147	-28.1
	6.32	.169	.0413	.046	.347	.2699	-27.4																

NACA

TABLE XIII.- AERODYNAMIC CHARACTERISTICS OF A TRIANGULAR WING EQUIPPED WITH TRAILING-EDGE TABS ON THE UNBALANCED FLAP



(a) Nominal δ, 0°; δ_t, 5°

M	α	C_L	C_D	C_m	C_n	δ
0.60	-4.06	-0.1170	0.0147	0.006	-0.010	-0.1
	-2.00	-.077	.0097	.004	-.006	-.1
	-.99	-.033	.0081	.003	-.002	-.1
	.01	.009	.0077	.001	.000	-.1
	1.02	.053	.0089	-.001	.002	-.1
	2.03	.109	.0116	-.004	.006	-.1
	3.07	.159	.0179	-.007	.010	-.1
	4.07	.206	.0261	-.011	.013	-.1
	5.08	.259	.0371	-.015	.017	-.1
	6.08	.309	.0507	-.019	.021	-.1
	7.09	.359	.0671	-.023	.025	-.1
	8.09	.408	.0862	-.027	.029	-.1
	9.10	.458	.1080	-.031	.033	-.1
	10.11	.508	.1326	-.035	.037	-.1
	11.12	.558	.1599	-.039	.041	-.1
	12.14	.608	.1900	-.043	.045	-.1
	13.15	.658	.2229	-.047	.049	-.1
	14.16	.708	.2585	-.051	.053	-.1
	15.17	.758	.2969	-.055	.057	-.1
	16.18	.808	.3381	-.059	.061	-.1
	17.20	.858	.3821	-.063	.065	-.1
0.90	-4.08	-.240	.0212	-.008	.015	-.1
	-2.03	-.184	.0092	-.003	.010	-.1
	-1.02	-.133	.0073	-.002	.006	-.1
	-.01	-.077	.0069	-.001	.002	-.1
	1.02	-.023	.0074	.001	-.002	-.1
	2.03	.031	.0085	.002	-.006	-.1
	3.04	.085	.0104	.003	-.010	-.1
	4.05	.135	.0131	.004	-.014	-.1
	5.06	.184	.0166	.005	-.018	-.1
	6.07	.234	.0209	.006	-.022	-.1
	7.08	.284	.0260	.007	-.026	-.1
	8.09	.334	.0319	.008	-.030	-.1
	9.10	.384	.0386	.009	-.034	-.1
	10.11	.434	.0461	.010	-.038	-.1
	11.12	.484	.0544	.011	-.042	-.1
	12.13	.534	.0635	.012	-.046	-.1
	13.14	.584	.0734	.013	-.050	-.1
	14.15	.634	.0841	.014	-.054	-.1
	15.16	.684	.0956	.015	-.058	-.1
	16.17	.734	.1079	.016	-.062	-.1
	17.18	.784	.1210	.017	-.066	-.1
1.30	-4.10	-.133	.0078	.036	.000	-.1
	-2.05	-.087	.0069	.017	-.003	-.1
	-1.03	-.043	.0066	.007	-.001	-.1
	-.02	.003	.0069	-.003	.001	-.1
	1.00	.049	.0078	-.013	.003	-.1
	2.01	.095	.0093	-.023	.005	-.1
	3.02	.141	.0114	-.033	.007	-.1
	4.03	.187	.0141	-.043	.009	-.1
	5.04	.233	.0174	-.053	.011	-.1
	6.05	.279	.0213	-.063	.013	-.1
	7.06	.325	.0258	-.073	.015	-.1
	8.07	.371	.0309	-.083	.017	-.1
	9.08	.417	.0366	-.093	.019	-.1
	10.09	.463	.0429	-.103	.021	-.1
	11.10	.509	.0498	-.113	.023	-.1
	12.11	.555	.0573	-.123	.025	-.1
	13.12	.601	.0654	-.133	.027	-.1
	14.13	.647	.0741	-.143	.029	-.1
	15.14	.693	.0834	-.153	.031	-.1
	16.15	.739	.0933	-.163	.033	-.1
	17.16	.785	.1038	-.173	.035	-.1
1.50	-4.10	-.131	.0078	.052	.000	-.1
	-2.05	-.085	.0069	.025	-.003	-.1
	-1.03	-.041	.0066	.011	-.001	-.1
	-.02	.005	.0069	-.003	.001	-.1
	1.00	.051	.0078	-.017	.003	-.1
	2.01	.097	.0093	-.031	.005	-.1
	3.02	.143	.0114	-.045	.007	-.1
	4.03	.189	.0141	-.059	.009	-.1
	5.04	.235	.0174	-.073	.011	-.1
	6.05	.281	.0213	-.087	.013	-.1
	7.06	.327	.0258	-.101	.015	-.1
	8.07	.373	.0309	-.115	.017	-.1
	9.08	.419	.0366	-.129	.019	-.1
	10.09	.465	.0429	-.143	.021	-.1
	11.10	.511	.0498	-.157	.023	-.1
	12.11	.557	.0573	-.171	.025	-.1
	13.12	.603	.0654	-.185	.027	-.1
	14.13	.649	.0741	-.199	.029	-.1
	15.14	.695	.0834	-.213	.031	-.1
	16.15	.741	.0933	-.227	.033	-.1
	17.16	.787	.1038	-.241	.035	-.1

(b) Nominal δ, -2°; δ_t, 5°

M	α	C_L	C_D	C_m	C_n	δ
0.60	-4.19	-0.198	0.0166	0.018	-0.011	-0.1
	-2.03	-.149	.0105	.008	-.008	-.1
	-1.03	-.099	.0084	.003	-.007	-.1
	-.02	-.048	.0078	.000	-.011	-.1
	.98	.003	.0076	-.004	-.019	-.1
	1.99	.053	.0080	-.008	-.031	-.1
	3.03	.101	.0093	-.012	-.047	-.1
	4.04	.151	.0113	-.016	-.061	-.1
	5.05	.199	.0140	-.020	-.078	-.1
	6.06	.249	.0173	-.024	-.096	-.1
	7.07	.299	.0214	-.028	-.114	-.1
	8.08	.349	.0261	-.032	-.132	-.1
	9.09	.399	.0315	-.036	-.150	-.1
	10.10	.449	.0376	-.040	-.168	-.1
	11.11	.499	.0444	-.044	-.186	-.1
	12.12	.549	.0519	-.048	-.204	-.1
	13.13	.599	.0601	-.052	-.222	-.1
	14.14	.649	.0690	-.056	-.240	-.1
	15.15	.699	.0786	-.060	-.258	-.1
	16.16	.749	.0889	-.064	-.276	-.1
	17.17	.799	.1000	-.068	-.294	-.1
0.90	-4.24	-.231	.0208	.018	-.008	-.1
	-2.12	-.182	.0103	.009	-.008	-.1
	-1.06	-.134	.0079	.005	-.008	-.1
	-.02	-.083	.0073	.000	-.008	-.1
	1.03	-.033	.0073	-.005	-.008	-.1
	2.08	.016	.0081	-.010	-.008	-.1
	3.12	.065	.0096	-.015	-.008	-.1
	4.16	.115	.0117	-.020	-.008	-.1
	5.20	.165	.0145	-.025	-.008	-.1
	6.24	.215	.0179	-.030	-.008	-.1
	7.28	.265	.0220	-.035	-.008	-.1
	8.32	.315	.0267	-.040	-.008	-.1
	9.36	.365	.0321	-.045	-.008	-.1
	10.40	.415	.0382	-.050	-.008	-.1
	11.44	.465	.0450	-.055	-.008	-.1
	12.48	.515	.0525	-.060	-.008	-.1
	13.52	.565	.0607	-.065	-.008	-.1
	14.56	.615	.0696	-.070	-.008	-.1
	15.60	.665	.0792	-.075	-.008	-.1
	16.64	.715	.0895	-.080	-.008	-.1
	17.68	.765	.1006	-.085	-.008	-.1
1.30	-4.10	-.181	.0088	.089	-.160	-.1
	-2.05	-.135	.0078	.047	-.080	-.1
	-1.03	-.091	.0075	.027	-.040	-.1
	-.02	-.045	.0078	.007	-.000	-.1
	1.00	.001	.0086	-.013	.040	-.1
	2.01	.047	.0101	-.033	.080	-.1
	3.02	.093	.0122	-.053	.120	-.1
	4.03	.139	.0149	-.073	.160	-.1
	5.04	.185	.0182	-.093	.200	-.1
	6.05	.231	.0221	-.113	.240	-.1
	7.06	.277	.0266	-.133	.280	-.1
	8.07	.323	.0317	-.153	.320	-.1
	9.08	.369	.0374	-.173	.360	-.1
	10.09	.415	.0437	-.193	.400	-.1
	11.10	.461	.0506	-.213	.440	-.1
	12.11	.507	.0581	-.233	.480	-.1
	13.12	.553	.0662	-.253	.520	-.1
	14.13	.599	.0749	-.273	.560	-.1
	15.14	.645	.0842	-.293	.600	-.1
	16.15	.691	.0941	-.313	.640	-.1
	17.16	.737	.1046	-.333	.680	-.1
1.50	-4.10	-.181	.0088	.089	-.160	-.1
	-2.05	-.135	.0078	.047	-.080	-.1
	-1.03	-.091	.0075	.027	-.040	-.1
	-.02	-.045	.0078	.007	-.000	-.1
	1.00	.001	.0086	-.013	.040	-.1
	2.01	.047	.0101	-.033	.080	-.1
	3.02	.093	.0122	-.053	.120	-.1
	4.03	.139	.0149	-.073	.160	-.1
	5.04	.185	.0182	-.093	.200	-.1
	6.05	.231	.0221	-.113	.240	-.1
	7.06	.277	.0266	-.133	.280	-.1
	8.07	.323	.0317	-.153	.320	-.1
	9.08	.369	.0374	-.173	.360	-.1
	10.09	.415	.0437	-.193	.400	-.1
	11.10	.461	.0506	-.213	.440	-.1
	12.11	.507	.0581	-.233	.480	-.1
	13.12	.553	.0662	-.253	.520	-.1
	14.13	.599	.0749	-.273	.560	-.1
	15.14	.645	.0842	-.293	.600	-.1
	16.15	.691	.0941	-.313	.640	-.1
	17.16	.737	.1046	-.333	.680	-.1

(c) Nominal δ, -4°; δ_t, 5°

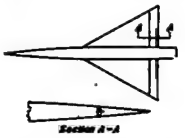
M	α	C_L	C_D	C_m	C_n	δ
0.60	-4.20	-0.241	0.0208	0.027	-0.043	-1.0
	-2.12	-.147	.0124	.008	-.050	-1.0
	-1.08	-.103	.0097	.001	-.019	-1.0
	-.02	-.059	.0086	-.006	.012	-1.0
	1.04	-.016	.0079	-.013	.043	-1.0
	2.09	.028	.0080	-.020	.074	-1.0
	3.13	.071	.0089	-.027	.105	-1.1
	4.18	.116	.0106	-.034	.136	-1.1
	5.23	.161	.0130	-.041	.167	-1.1
	6.28	.206	.0161	-.048	.198	-1.1
	7.32	.251	.0199	-.055	.229	-1.1
	8.37	.296	.0244	-.062	.260	-1.1
	9.42	.341	.0296	-.069	.291	-1.1
	10.46	.386	.0356	-.076	.322	-1.1
	11.51	.431	.0423	-.083	.353	-1.1
	12.56	.476	.0497	-.090	.384	-1.1
	13.60	.521	.0578	-.097	.415	-1.1
	14.65	.566	.0667	-.104	.446	-1.1
	15.70	.611	.0763	-.111	.477	-1.1
	16.74	.656	.0866	-.118	.508	-1.1
	17.79	.701	.0977	-.125	.539	-1.1
0.90	-4.26	-.273	.0247	.023	-.063	-1.0
	-2.13	-.223	.0130	.014	-.063	-1.0
	-1.07	-.173	.0098	.009	-.063	-1.0
	-.02	-.123	.0086	.004	-.063	-1.0
	1.03	-.073	.0085	-.001	-.063	-1.0
	2.08	-.023	.0093	-.006	-.063	-1.0
	3.14	.027	.0110	-.011	-.063	-1.0
	4.19	.077	.0135	-.016	-.063	-1.0
	5.25	.127	.0168	-.021	-.063	-1.0
	6.30	.177	.0209	-.026	-.063	-1.0
	7.36	.227	.0258	-.031	-.063	-1.0
	8.41	.277	.0315	-.036	-.063	-1.0
	9.47	.327	.0380	-.041	-.063	-1.0
	10.52	.377	.0453	-.046	-.063	-1.0
	11.58	.427	.0533	-.051	-.063	-1.0
	12.63	.477	.0621	-.056	-.063	-1.0
	13.69	.527	.0717	-.061	-.063	-1.0
	14.74	.577	.0820	-.066	-.063	-1.0
	15.80	.627	.0931	-.071	-.063	-1.0
	16.85	.677	.1050	-.076	-.063	-1.0
	17.91	.727	.1176	-.081	-.063	-1.0
1.30	-4.10	-.193	.0079	.096	-.147	-1.6
	-2.05	-.148	.0069	.048	-.074	-1.6
	-1.03	-.103	.0066	.024	-.037	-1.6
	-.02	-.058	.0069	.000	.000	-1.6
	1.00	-.013	.0078	-.024	.037	-1.6
	2.01	.033	.0093	-.048	.074	-1.6
	3.02	.078	.0114	-.072	.111	-1.6
	4.03	.123	.0141	-.096	.147	-1.6
	5.04	.168	.0174	-.120	.184	-1.6
	6.05	.213	.0213	-.144	.221	-1.6
	7.06	.258	.0258	-.168	.258	-1.6
	8.07	.303	.0309	-.192	.295	-1.6
	9.08	.348	.0366	-.216	.332	-1.6
	10.09	.393	.0429	-.240	.369	-1.6
	11.10	.438	.0498	-.264	.406	-1.6
	12.11	.483	.0573	-.288	.443	-1.6
	13.12	.528	.0654	-.312	.480	-1.6
	14.13	.573	.0741	-.336	.517	-1.6
	15.14	.618	.0834	-.360	.554	-1.6
	16.15	.663	.0933	-.384	.591	-1.6
	17.16	.708	.1038	-.408	.628	-1.6
1.50	-4.10	-.193	.0079	.096	-.147	-1.6
	-2.05	-.148	.0069	.048	-.074	-1.6
	-1.03	-.103	.0066	.024	-.037	-1.6
	-.02	-.058	.0069	.000	.000	-1.6
	1.00	-.013	.0078	-.024	.037	-1.6
	2.01	.033	.0093	-.048	.074	-1.6
	3.02	.078	.0114	-.072	.111	-1.6
	4.03	.123	.0141	-.096	.147	-1.6
	5.04	.168	.0174	-.120	.184	-1.6
	6.05	.213	.0213	-.144	.221	-1.6
	7.06	.258	.0258	-.168	.258	-1.6
	8.07	.303	.0309	-.192	.295	-1.6
	9.08	.348	.0366	-.216	.332	-1.6
	10.09	.393	.0429	-.240	.369	-1.6
	11.10	.438	.0498	-.264	.406	-1.6
	12.11	.483	.0573	-.288	.443	-1.6
	13.12	.528	.0654	-.312	.480	-1.6
	14.13	.573	.0741	-.336	.517	-1.6
	15.14	.618	.0834	-.360	.554	-1.6
	16.15	.663	.0933	-.384	.591	-1.6
	17.16	.708	.1038	-.408	.628	-1.6

(d) Nominal δ, -8°; δ_t, 5°

M	α	C_L	C_D	C_m	C_n	δ
0.60	-4.26	-0.308	0.0290	0.037	0.101	-1.9
	-2.12	-.215	.0181	.020	.050	-1.9
	-1.08	-.171	.0148	.013	.013	-1.9
	-.02	-.126	.0128	.006	-.024	-1.9
	1.04	-.082	.0122	-.001	-.061	-1.9
	2.09	-.037	.0130	-.008	-.098	-1.9
	3.13	.007	.0152	-.015	-.135	-1.9
	4.18	.052	.0188	-.022	-.172	-1.9
	5.23	.097	.0238	-.029	-.209	-1.9
	6.28	.142	.0302	-.036	-.246	-1.9
	7.32	.187	.0380	-.043	-.283	-1.9
	8.37	.232	.0472	-.050	-.320	-1.9
	9.42	.277	.0578	-.057	-.357	-1.9
	10.46	.322	.0698	-.064	-.394	-1.9
	11.51	.367	.0832	-.071	-.431	-1.9
	12.56	.412	.0980	-.078	-.468	-1.9
	13.60	.457	.1142	-.085	-.505	-1.9
	14.65	.502	.1318	-.092	-.542	-1.9
	15.70	.547	.1508	-.099	-.579	-1.9
	16.74	.592	.1712	-.106	-.616	-1.9
	17.79	.637	.1930	-.113	-.653	-1.9
0.90	-4.30	-.336	.0349	.034	.151	-1.7
	-2.15	-.284	.0206	.023	.113	-1.7
	-1.13	-.177	.0165	.017	.094	-1.7
	-.02	-.131	.0151	.011	.075	-1.7
	1.09	-.085	.0161	.006	.056	-1.7
	2.20	-.033	.0195	.000	.037	-1.7
	3.31	.018	.0253	-.006	.018	-1.7
	4.42	.069	.0335	-.011	-.000	-1.7
	5.53	.120	.0441	-.017	-.019	-1.7
	6.64	.171	.0571	-.023	-.038	-1.7
	7.75	.222	.0725	-.028	-.057	-1.7
	8.86	.273	.0903	-.034	-.076	-1.7
	9.97	.324	.1105	-.040	-.095	-1.7
	11.08	.375	.1331	-.045	-.114	-1.7
	12.19	.426	.1581	-.051	-.133	-1.7
	13.30	.477	.1855	-.057	-.152	-1.7
	14.41	.528	.2153	-.062	-.171	-1.7
	15.52	.579	.2475	-.068	-.190	-1.7
	16.63	.630	.2821	-.074	-.209	-1.7
	17.74	.681	.3191	-.079	-.228	-1.7
1.30	-4.09	-.483	.0386	.098	.238	-1.4
	-2.04	-.384	.0253	.049	.119	-1.4
	-1.02	-.284	.0213	.025	.059	-1.4
	.01	-.185	.0200	.000	.000	-1.4
	1.03	-.085	.0213	-.025	-.059	-1.4
	2.05	.015	.0253	-.049	-.119	-1.4
	3.07	.114	.0319	-.074	-.178	-1.4
	4.09	.214	.0411	-.098	-.238	-1.4
	5.11	.314	.0529	-.123	-.297	-1.4
	6.13	.413	.0673	-.147	-.357	-1.4
	7.15	.513	.0843	-.172	-.416	-1.4
	8.17	.613	.1038	-.196	-.476	-1.4
	9.19	.712	.1259	-.221	-.535	-1.4
	10.21	.812	.1506	-.245	-.595	-1.4
	11.23	.912	.1779	-.270	-.654	-1.4
	12.25	1.011	.2077	-.294	-.714	-1.4
	13.27	1.111	.2402	-.319	-.773	-1.4
	14.29	1.211	.2752	-.343	-.833	-1.4
	15.31	1.310	.3128	-.368	-.892	-1.4
	16.33	1.410	.3530	-.392	-.952	-1.4
	17.35	1.510	.3957	-.417	-1.011	-1.4
1.50	-4.09	-.483	.0386	.098	.238	-1.4
	-2.04	-.384	.0253	.049	.119	-1.4
	-1.02	-.284	.0213	.025	.059	-1.4
	.01	-.185	.0200	.000	.000	-1.4
	1.03	-.085	.0213	-.025	-.059	-1.4
	2.05	.015	.0253	-.049	-.119	-1.4
	3.07	.114	.0319	-.074	-.178	-1.4
	4.09	.214	.0411	-.098	-.238	-1.4
	5.11	.314	.0529	-.123	-.297	-1.4
	6.13	.413	.0673	-.147	-.357	-1.4
	7.15	.513	.0843	-.172	-.416	-1.4
	8.17	.613	.1038	-.196	-.476	-1.4
	9.19	.712	.1259	-.221	-.535	-1.4
	10.21	.812	.1506	-.245	-.595	-1.4
	11.23	.912	.1779	-.270	-.654	-1.4
	12.25	1.011	.2077	-.294	-.714	-1.4
	13.27	1.111	.2402	-.319	-.773	-1.4
	14.29	1.211	.2752	-.343	-.833	-1.4
	15.31	1.310	.3128	-.368	-.892	-1.4
	16.33	1.410	.3530	-.392	-.952	-1.4
	17.35	1.510	.3957	-.417	-1.011	-1.4

NACA

TABLE XIII.- CONTINUED



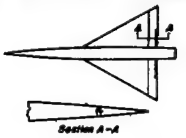
(e) Nominal δ, 0°; δ_t, 10°

(f) Nominal δ, -2°; δ_t, 10°

(g) Nominal δ, -4°; δ_t, 10°

(h) Nominal δ, -8°; δ_t, 10°

TABLE XIII.- CONCLUDED



(i) Nominal δ, 0°; δ_t, 15°

M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.60	-4.20	-0.118	0.0158	-0.018	-0.084	-0.1	0.1
	-2.11	-.040	.0093	-.008	-.103	.1	.1
	-1.03	-.004	.0083	-.003	-.102	.1	.1
	-.46	.018	.0083	.000	-.102	.1	.1
	.53	.043	.0084	.003	-.102	.1	.1
	1.04	.066	.0085	.005	-.102	.1	.1
	2.15	.119	.0114	.009	-.100	.1	.1
	3.26	.173	.0211	.013	-.096	.1	.1
	4.38	.226	.0331	.017	-.092	.1	.1
	5.49	.279	.0474	.021	-.088	.1	.1
	6.60	.332	.0640	.025	-.084	.1	.1
	7.71	.384	.0829	.029	-.080	.1	.1
	8.82	.435	.1041	.033	-.076	.1	.1
	9.94	.485	.1276	.037	-.072	.1	.1
	11.04	.533	.1534	.041	-.068	.1	.1
	12.15	.580	.1815	.045	-.064	.1	.1
	13.26	.625	.2119	.049	-.060	.1	.1
	14.37	.668	.2446	.053	-.056	.1	.1
	15.48	.709	.2796	.057	-.052	.1	.1
	16.59	.748	.3169	.061	-.048	.1	.1
	17.70	.784	.3565	.065	-.044	.1	.1
0.90	-4.07	-.164	.0154	-.010	-.069	.1	.1
	-2.06	-.087	.0089	-.019	-.081	.1	.1
	-1.03	-.038	.0073	-.023	-.111	.1	.1
	-.55	.021	.0073	-.020	-.121	.1	.1
	.02	.079	.0080	-.016	-.126	.1	.1
	1.06	.135	.0092	-.010	-.132	.1	.1
	2.18	.187	.0128	-.003	-.132	.1	.1
	3.29	.238	.0202	.004	-.132	.1	.1
	4.40	.288	.0310	.012	-.132	.1	.1
	5.51	.336	.0440	.020	-.132	.1	.1
1.30	-4.10	-.167	.0267	.000	.016	0	0
	-2.08	-.081	.0188	-.007	.001	0	0
	-1.04	-.039	.0158	-.011	-.008	0	0
	-.52	.015	.0153	-.012	-.013	0	0
	.01	.068	.0159	-.013	-.018	0	0
	1.08	.118	.0239	-.013	-.023	0	0
1.50	-4.10	-.167	.0267	.000	.016	0	0
	-2.08	-.081	.0188	-.007	.001	0	0
	-1.04	-.039	.0158	-.011	-.008	0	0
	-.52	.015	.0153	-.012	-.013	0	0
	.01	.068	.0159	-.013	-.018	0	0
	1.08	.118	.0239	-.013	-.023	0	0

M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.90	8.96	0.183	0.0727	-0.060	-0.228	-0.1	-0.1
	10.01	.304	.1184	-.079	-.264	-.1	-.1
	8.96	.183	.0727	-.060	-.228	-.1	-.1
1.30	4.10	.167	.0688	.008	.008	0	0
	3.04	.097	.0595	-.001	-.004	0	0
	2.00	.041	.0521	-.007	-.009	0	0
	1.00	.000	.0473	-.010	-.013	0	0
	.01	-.039	.0459	-.013	-.018	0	0
	-1.04	-.079	.0480	-.016	-.023	0	0
	-2.08	-.119	.0536	-.019	-.028	0	0
	-3.12	-.159	.0626	-.022	-.033	0	0
	-4.16	-.199	.0751	-.025	-.038	0	0
	-5.20	-.239	.0911	-.028	-.043	0	0
	-6.24	-.279	.1106	-.031	-.048	0	0
	-7.28	-.319	.1335	-.034	-.053	0	0
	-8.32	-.359	.1599	-.037	-.058	0	0
1.50	4.10	.167	.0688	.008	.008	0	0
	3.04	.097	.0595	-.001	-.004	0	0
	2.00	.041	.0521	-.007	-.009	0	0
	1.00	.000	.0473	-.010	-.013	0	0
	.01	-.039	.0459	-.013	-.018	0	0
	-1.04	-.079	.0480	-.016	-.023	0	0
	-2.08	-.119	.0536	-.019	-.028	0	0
	-3.12	-.159	.0626	-.022	-.033	0	0
	-4.16	-.199	.0751	-.025	-.038	0	0
	-5.20	-.239	.0911	-.028	-.043	0	0
	-6.24	-.279	.1106	-.031	-.048	0	0
	-7.28	-.319	.1335	-.034	-.053	0	0
	-8.32	-.359	.1599	-.037	-.058	0	0

(j) Nominal δ, -2°; δ_t, 15°

M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.60	-4.12	-0.108	0.0154	-0.003	-0.086	-0.1	0.1
	-2.11	-.077	.0101	-.008	-.074	.1	.1
	-1.03	-.031	.0084	-.011	-.088	.1	.1
	-.48	.007	.0079	-.012	-.097	.1	.1
	.49	.031	.0083	-.013	-.107	.1	.1
	1.02	.060	.0089	-.011	-.109	.1	.1
	2.09	.126	.0108	-.010	-.113	.1	.1
	3.17	.191	.0141	-.010	-.116	.1	.1
	4.24	.256	.0187	-.009	-.118	.1	.1
	5.32	.320	.0247	-.008	-.119	.1	.1
	6.39	.383	.0321	-.007	-.120	.1	.1
	7.47	.445	.0409	-.006	-.120	.1	.1
	8.54	.506	.0511	-.005	-.120	.1	.1
	9.62	.566	.0627	-.004	-.120	.1	.1
	10.69	.624	.0757	-.003	-.120	.1	.1
	11.77	.681	.0901	-.002	-.120	.1	.1
	12.84	.736	.1059	-.001	-.120	.1	.1
	13.92	.789	.1232	.000	-.120	.1	.1
	14.99	.840	.1418	.001	-.120	.1	.1
	16.07	.889	.1619	.002	-.120	.1	.1
	17.14	.936	.1834	.003	-.120	.1	.1
0.90	-4.10	-.159	.0159	-.011	-.089	.1	.1
	-2.11	-.124	.0105	-.008	-.077	.1	.1
	-1.04	-.081	.0079	-.008	-.083	.1	.1
	-.52	-.038	.0073	-.009	-.093	.1	.1
	.01	.016	.0073	-.007	-.097	.1	.1
	1.08	.072	.0080	-.004	-.101	.1	.1
	2.16	.128	.0100	-.001	-.101	.1	.1
	3.25	.184	.0136	.003	-.101	.1	.1
	4.33	.239	.0189	.007	-.101	.1	.1
	5.42	.293	.0259	.011	-.101	.1	.1
1.30	-4.10	-.167	.0269	.000	.016	0	0
	-2.08	-.081	.0189	-.007	.001	0	0
	-1.04	-.039	.0159	-.011	-.008	0	0
	-.52	.015	.0154	-.012	-.013	0	0
	.01	.068	.0159	-.013	-.018	0	0
	1.08	.118	.0239	-.013	-.023	0	0
1.50	-4.10	-.167	.0269	.000	.016	0	0
	-2.08	-.081	.0189	-.007	.001	0	0
	-1.04	-.039	.0159	-.011	-.008	0	0
	-.52	.015	.0154	-.012	-.013	0	0
	.01	.068	.0159	-.013	-.018	0	0
	1.08	.118	.0239	-.013	-.023	0	0

M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.90	8.45	0.119	0.0619	-0.033	-0.195	-0.2	-0.2
	10.58	.321	.0969	-.056	-.236	-.2	-.2
	8.45	.119	.0619	-.033	-.195	-.2	-.2
1.30	4.10	.106	.0488	.020	.047	-.1	-.1
	3.05	.038	.0399	.013	.038	-.1	-.1
	2.00	-.018	.0338	.007	.030	-.1	-.1
	1.00	-.056	.0299	.002	.023	-.1	-.1
	.01	-.094	.0281	-.003	.017	-.1	-.1
	-1.04	-.132	.0284	-.008	.011	-.1	-.1
	-2.08	-.170	.0308	-.013	.006	-.1	-.1
	-3.12	-.208	.0353	-.018	.000	-.1	-.1
	-4.16	-.246	.0419	-.023	-.005	-.1	-.1
	-5.20	-.284	.0506	-.028	-.011	-.1	-.1
	-6.24	-.322	.0614	-.033	-.016	-.1	-.1
	-7.28	-.360	.0743	-.038	-.022	-.1	-.1
	-8.32	-.398	.0893	-.043	-.027	-.1	-.1
1.50	4.10	.106	.0488	.020	.047	-.1	-.1
	3.05	.038	.0399	.013	.038	-.1	-.1
	2.00	-.018	.0338	.007	.030	-.1	-.1
	1.00	-.056	.0299	.002	.023	-.1	-.1
	.01	-.094	.0281	-.003	.017	-.1	-.1
	-1.04	-.132	.0284	-.008	.011	-.1	-.1
	-2.08	-.170	.0308	-.013	.006	-.1	-.1
	-3.12	-.208	.0353	-.018	.000	-.1	-.1
	-4.16	-.246	.0419	-.023	-.005	-.1	-.1
	-5.20	-.284	.0506	-.028	-.011	-.1	-.1
	-6.24	-.322	.0614	-.033	-.016	-.1	-.1
	-7.28	-.360	.0743	-.038	-.022	-.1	-.1
	-8.32	-.398	.0893	-.043	-.027	-.1	-.1

(k) Nominal δ, -4°; δ_t, 15°

M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.60	-4.19	-0.202	0.0184	0.012	-0.089	-0.1	0.1
	-4.09	-.189	.0117	.006	-.084	.1	.1
	-1.03	-.084	.0090	.003	-.099	.1	.1
	-.46	-.046	.0083	.002	-.103	.1	.1
	.52	.004	.0082	.002	-.103	.1	.1
	1.01	.035	.0086	.002	-.103	.1	.1
	2.06	.083	.0125	.001	-.103	.1	.1
	3.15	.132	.0193	-.000	-.103	.1	.1
	4.25	.180	.0289	-.002	-.103	.1	.1
	5.34	.227	.0413	-.005	-.103	.1	.1
	6.43	.274	.0565	-.009	-.103	.1	.1
	7.52	.320	.0746	-.013	-.103	.1	.1
	8.61	.365	.0955	-.018	-.103	.1	.1
	9.70	.409	.1192	-.023	-.103	.1	.1
	10.79	.452	.1458	-.029	-.103	.1	.1
	11.88	.494	.1752	-.035	-.103	.1	.1
	12.97	.534	.2075	-.041	-.103	.1	.1
	14.06	.573	.2426	-.047	-.103	.1	.1
	15.15	.610	.2806	-.053	-.103	.1	.1
	16.24	.645	.3215	-.059	-.103	.1	.1
	17.33	.678	.3653	-.065	-.103	.1	.1
0.90	-4.05	-.231	.0231	.011	-.076	.1	.1
	-2.13	-.140	.0105	.003	-.093	.1	.1
	-1.07	-.094	.0093	.000	-.101	.1	.1
	-.54	-.046	.0083	-.002	-.108	.1	.1
	.54	-.017	.0076	-.004	-.112	.1	.1
	1.08	.030	.0079	-.003	-.112	.1	.1
	2.15	.078	.0098	-.000	-.112	.1	.1
	3.23	.126	.0139	.004	-.112	.1	.1
	4.31	.173	.0199	.008	-.112	.1	.1
	5.39	.219	.0279	.013	-.112	.1	.1
1.30	-4.10	-.187	.0278	.033	.109	-.1	-.1
	-2.04	-.104	.0190	.020	.071	-.1	-.1
	-1.01	-.066	.0161	.011	.048	-.1	-.1
	-.52	-.047	.0153	.006	.036	-.1	-.1
	.01	-.028	.0149	.001	.024	-.1	-.1
	1.08	.010	.0152	-.004	.012	-.1	-.1
	2.16	.048	.0165	-.009	.000	-.1	-.1
	3.24	.086	.0188	-.014	-.012	-.1	-.1
	4.32	.124	.0221	-.019	-.024	-.1	-.1
	5.40	.162	.0264	-.024	-.036	-.1	-.1
1.50	-4.10	-.187	.0278	.033	.109	-.1	-.1
	-2.04	-.104	.0190	.020	.071	-.1	-.1
	-1.01	-.066	.0161	.011	.048	-.1	-.1
	-.52	-.047	.0153	.006	.036	-.1	-.1
	.01	-.028	.0149	.001	.024	-.1	-.1
	1.08	.010	.0152	-.004	.012	-.1	-.1
	2.16	.048	.0165	-.009	.000	-.1	-.1
	3.24	.086	.0188	-.014	-.012	-.1	-.1
	4.32	.124	.0221	-.019	-.024	-.1	-.1
	5.40	.162	.0264	-.024	-.036	-.1	-.1

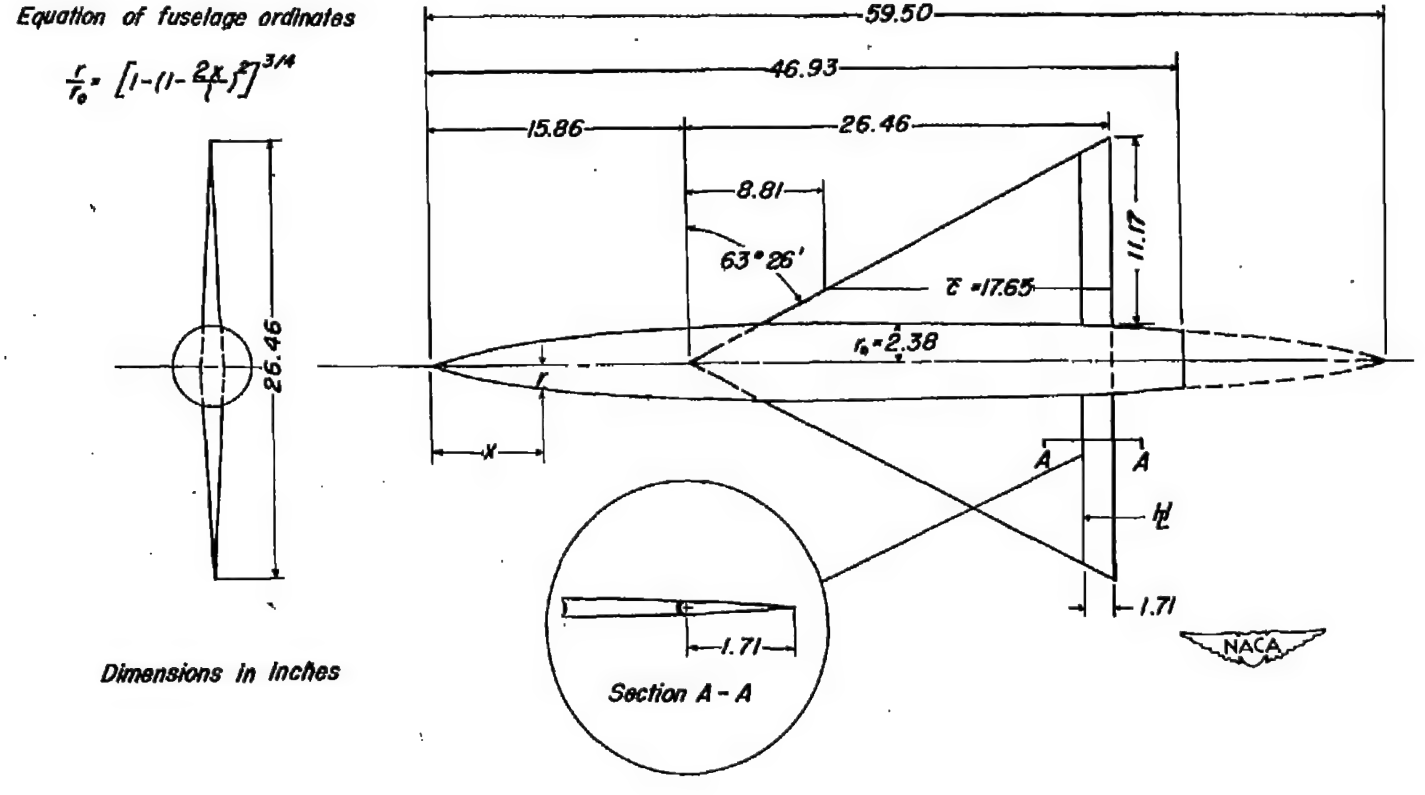
M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.90	8.44	0.368	0.0968	-0.012	-0.148	-0.1	-0.1
	10.54	.478	.0881	-.019	-.196	-.1	-.1
	12.66	.591	.1312	-.025	-.236	-.1	-.1
1.30	4.09	.308	.0303	.038	.183	-.1	-.1
	3.04	.244	.0228	.034	.164	-.1	-.1
	2.00	.184	.0181	.027	.145	-.1	-.1
	1.00	.127	.0161	.017	.065	-.1	-.1
	.01	.071	.0171	.007	-.014	-.1	-.1
	-1.04	.017	.0207	-.003	-.093	-.1	-.1
	-2.08	-.037	.0268	-.013	-.172	-.1	-.1
	-3.12	-.090	.0353	-.023	-.251	-.1	-.1
	-4.16	-.143	.0463	-.033	-.330	-.1	-.1
	-5.20	-.196	.0597	-.043	-.409	-.1	-.1
1.50	4.09	.308	.0303	.038	.183	-.1	-.1
	3.04	.244	.0228	.034	.164	-.1	-.1
	2.00	.184	.0181	.027	.145	-.1	-.1
	1.00	.127	.0161	.017	.065	-.1	-.1
	.01	.071	.0171	.007	-.014	-.1	-.1
	-1.04	.017	.0207	-.003	-.093	-.1	-.1
	-2.08	-.037	.0268	-.013	-.172	-.1	-.1
	-3.12	-.090	.0353	-.023	-.251	-.1	-.1
	-4.16	-.143	.0463	-.033	-.330	-.1	-.1
	-5.20	-.196	.0597	-.043	-.409	-.1	-.1

(l) Nominal δ, -8°; δ_t, 15°

M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.60	-4.24	-0.274	0.0295	0.042	-0.090	-0.0	0.0
	-4.14	-.262	.0228	.036	-.085	.0	.0
	-1.16	-.136	.0138	.033	-.101	.0	.0
	-.58	-.114	.0116	.034	-.108	.0	.0
	.48	-.093	.0099	.033	-.115	.0	.0
	.98	-.092	.0095	.032	-.116	.0	.0
	2.03	-.037	.0096	.030	-.116	.0	.0
	3.13	.023	.0118	.027	-.116	.0	.0
	4.23	.083	.0162	.023	-.116	.0	.0
	5.33	.142	.0228	.018	-.116	.0	.0
	6.43	.199	.0316	.012	-.116	.0	.0
	7.53	.255	.0426	.006	-.116	.0	.0
	8.63	.309	.0558	.000	-.116	.0	.0
	9.73	.362	.0712	-.006	-.116	.0	.0
	10.83	.413	.0888	-.013	-.116	.0	.0
	11.93	.463	.1086	-.020	-.116	.0	.0
	13.03	.511	.1306	-.027	-.116	.0	.0
	14.13	.557	.1548	-.034	-.116	.0	.0
	15.23	.601	.1812	-.041	-.116	.0	.0
	16.33	.643	.2098	-.048	-.116	.0	.0
	17.43	.683	.2406	-.055	-.116	.0	.0
0.90	-4.36	-.334	.0340	.067	.123	-.0	.0
	-2.17	-.212	.0203	.056	.094	-.0	.0
	-1.12	-.165	.0162	.054	.099	-.0	.0
	-.59	-.141	.0147	.053	.099	-.0	.0
	.46	-.097	.0123	.050	.091	-.0	.0
	.95	-.072	.0117	.048	.086	-.0	.0
	2.03	-.019	.0114	.043	.067	-.0	.0
	3.10	.036	.0130	.038	.057	-.0	.0
	4.18	.090	.0173	.032	.038	-.0	.0
1.30	-4.10	-.208	.0330	.046	.167	-.0	.0
	-2.04	-.122	.0233	.033	.121	-.0	.0
	-1.01	-.086	.0198	.027	.098	-.0	.0
	-.49	-.068	.0186	.023	.089	-.0	.0
	.01	-.049	.0176	.018	.079	-.0	.0
	1.03	-.031	.0178	.014	.069	-.0	.0
1.50	-4.10	-.208	.0330	.046	.167	-.0	.0
	-2.04	-.122	.0233	.033	.121	-.0	.0
	-1.01	-.086	.0198	.027	.098	-.0	.0
	-.49	-.068	.0186	.023	.089	-.0	.0
	.01	-.049	.0176	.018	.079	-.0	.0
	1.03	-.031	.0178	.014	.069	-.0	.0

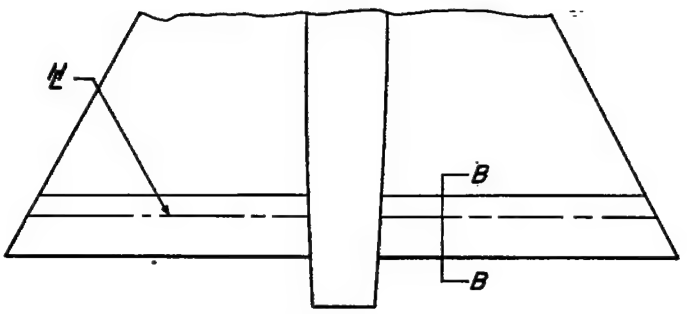
M	α	C_L	C_D	C_m	C_n	C_Y	ε
0.90	8.40	0.300	0.0680	0.005	0.011	-0.0	0.0
	10.52	.409	.0808	-.017	.008	-0.0	.0
	8.40	.300	.0680	.005	.011	-0.0	.0
1.30	4.10	.232	.0368	.035	.188	-.0	.0
	3.04	.167	.0288	.030	.169	-.0	.0
	2.00	.107	.0238	.024	.150	-.0	.0
	1.00	.050	.0211	.014	.070	-.0	.0
	.01	-.006	.0199	.004	-.009	-.0	.0
	-1.04	-.062	.0211	-.006	-.088	-.0	.0
	-2.08	-.118	.0246	-.016	-.167	-.0	.0
	-3.12	-.174	.0306	-.026	-.246	-.0	.0
	-4.16	-.230	.0390	-.036	-.325	-.0	.0
	-5.20	-.286	.0498	-.046	-.404	-.0	.0
1.50	4.09	.232	.0368	.035	.188	-.0	.0
	3.04	.167	.0288	.030	.169	-.0	.0
	2.00	.107	.0238	.024	.150	-.0	.0
	1.00	.050	.0211	.014	.070	-.0	.0
	.01	-.006	.0199	.004	-.009	-.0	.0
	-1.04	-.062	.0211	-.006	-.088	-.0	.0
	-2.08	-.118	.0246	-.016	-.167	-.0	.0
	-3.12	-.174	.0306	-.026	-.246	-.0	.0
	-4.16	-.230	.0390	-.036	-.325	-.0	.0
	-5.20	-.286	.0498	-.046	-.404	-.0	.0

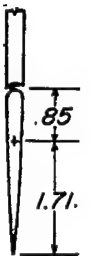
NACA



(a) Unbalanced flap.

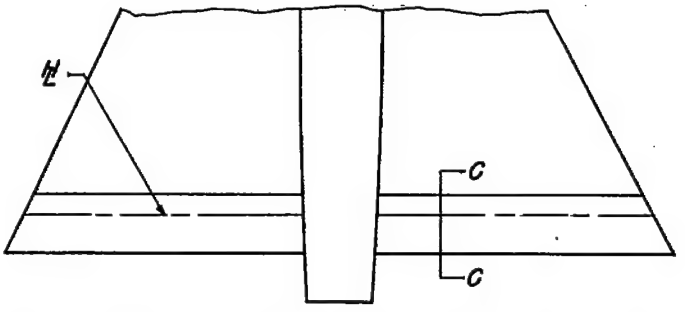
Figure 1. Dimensional sketch of model.

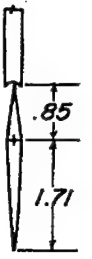




Section B-B

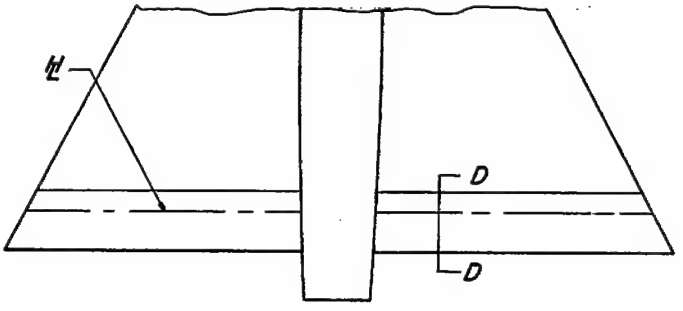
(b) 50-percent balanced flap (true contour wing profile; round nose flap)

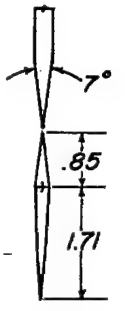




Section C-C

(c) 50-percent balanced flap (true contour wing profile; sharp nose flap).

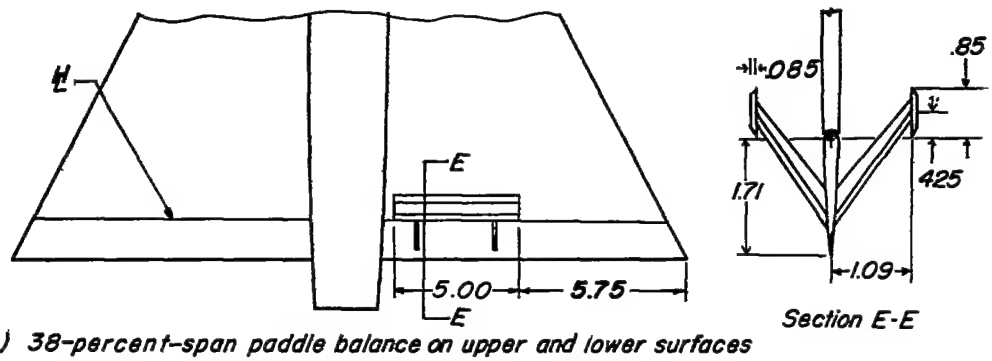




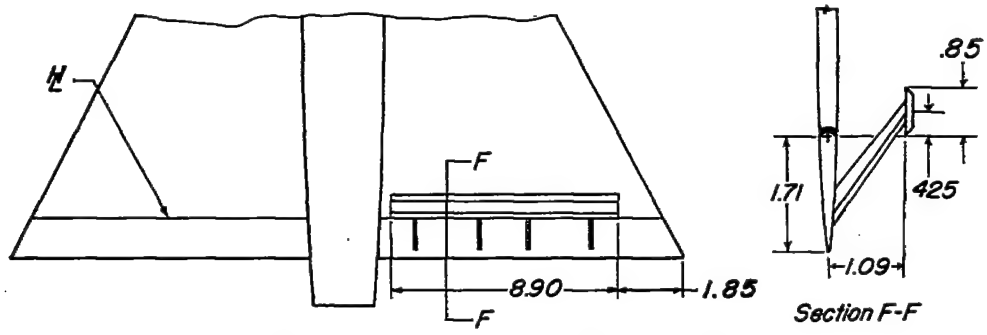
Section D-D

(d) 50-percent balanced flap (modified wing profile; sharp nose flap).

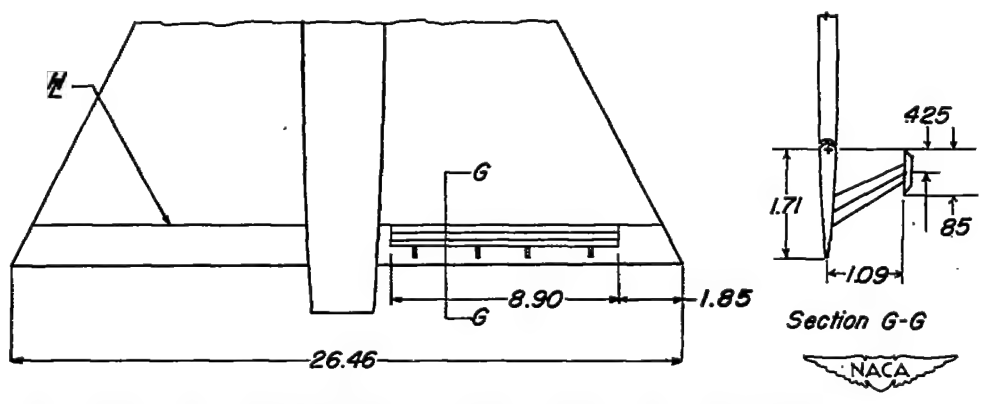
Figure 1.— Continued.



(e) 38-percent-span paddle balance on upper and lower surfaces forward of hinge line.

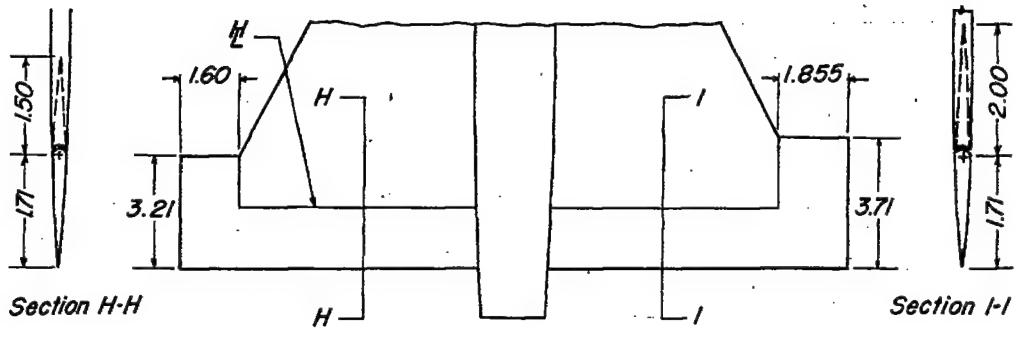


(f) 67-percent-span paddle balance on upper surface forward of hinge line.



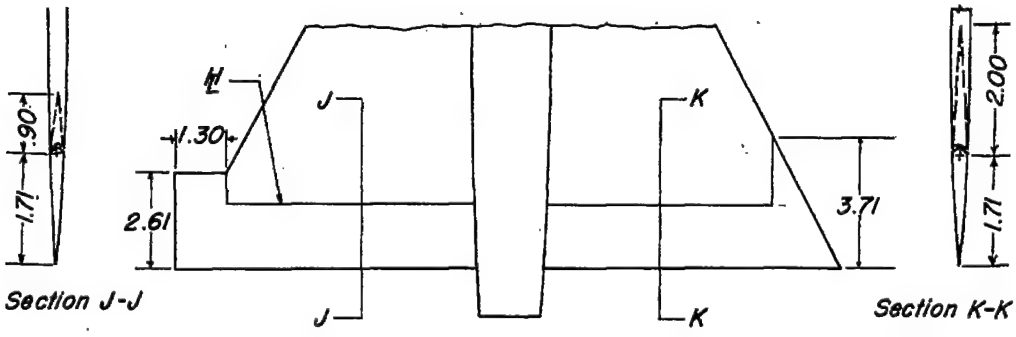
(g) 67-percent-span paddle balance on upper surface aft of hinge line.

Figure 1. — Continued.



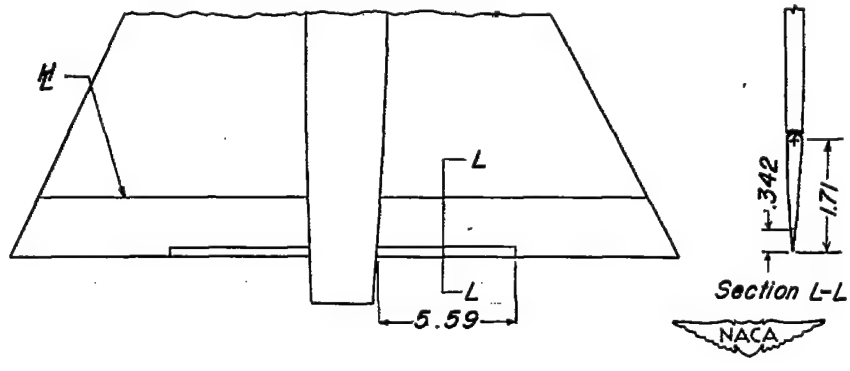
(h) 13.1-percent-area rectangular horn balance flap.

(i) 20.3-percent-area rectangular horn balance flap.



(j) 6.4-percent-area rectangular horn balance flap.

(k) 5.5-percent-area triangular horn balance flap.



(l) Trailing-edge tab.

Figure 1. — Concluded.

[redacted]

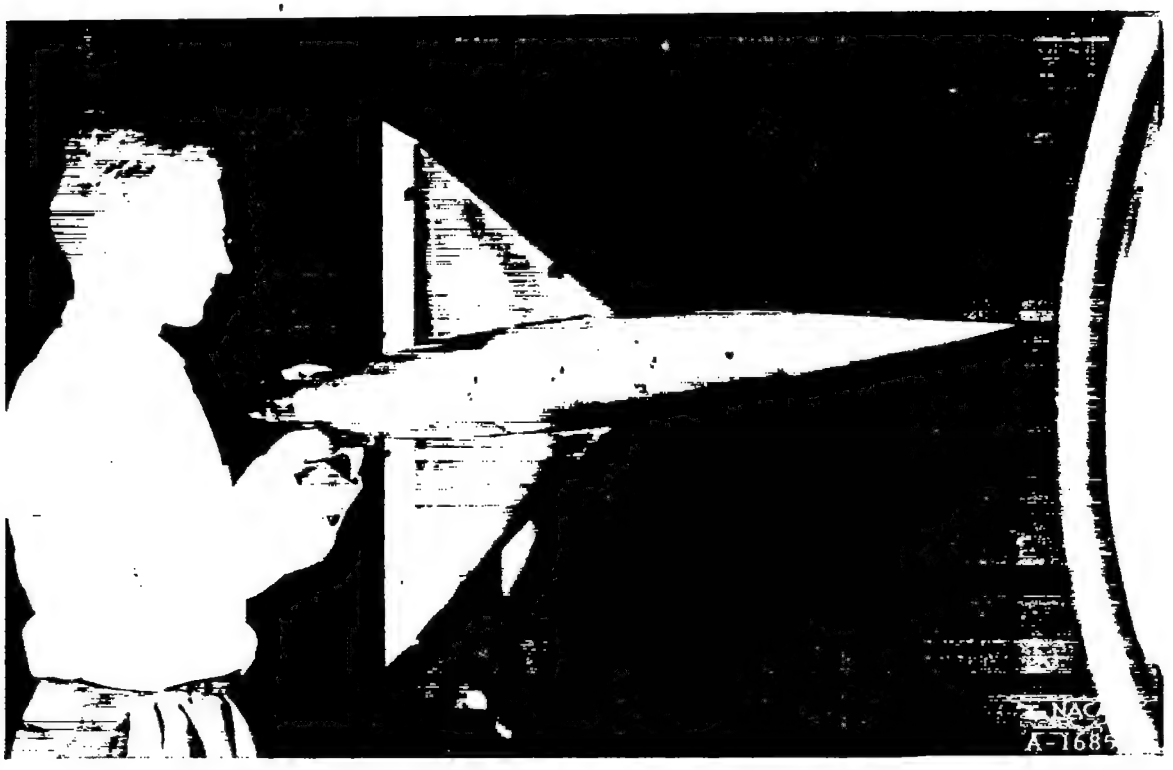
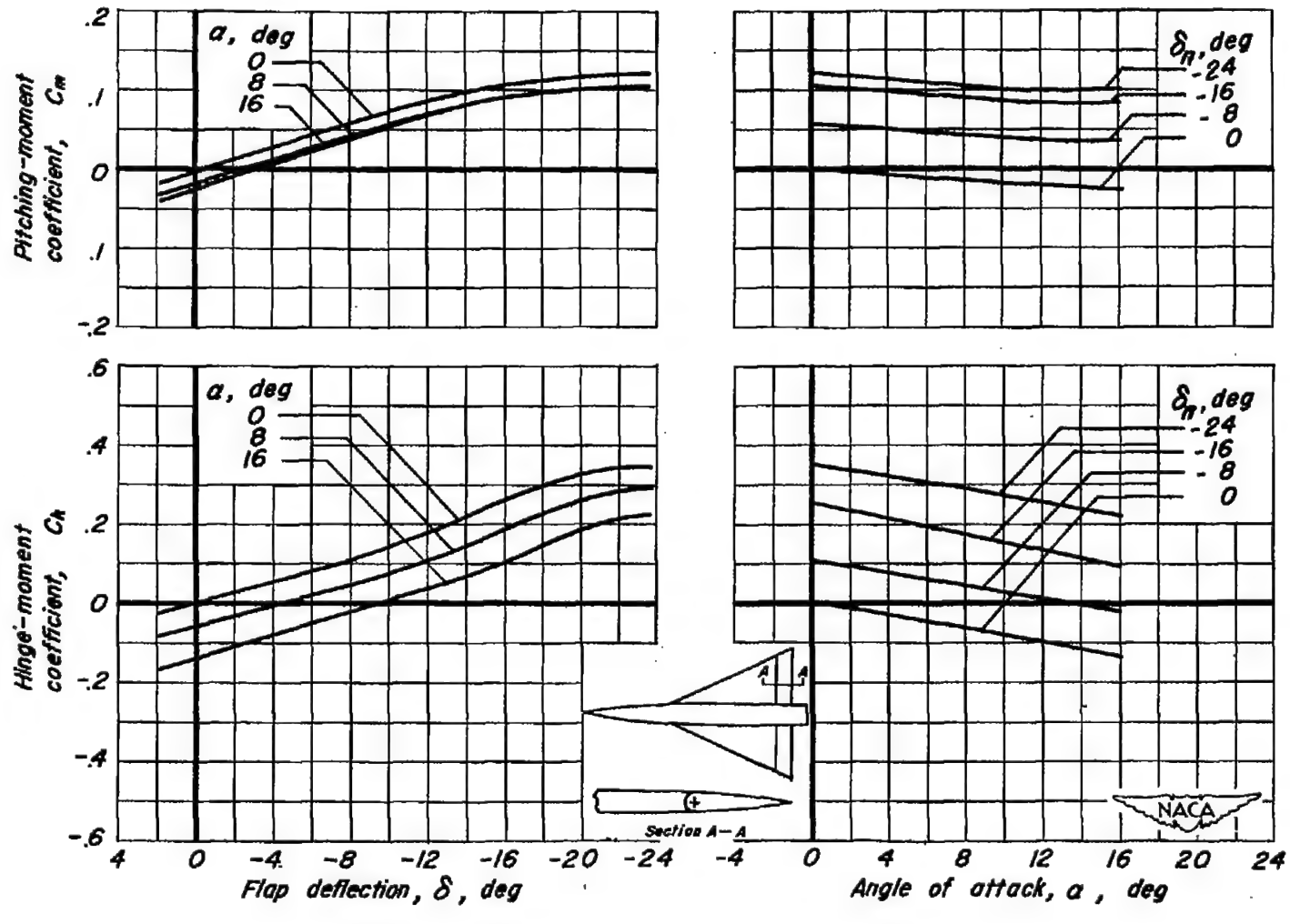
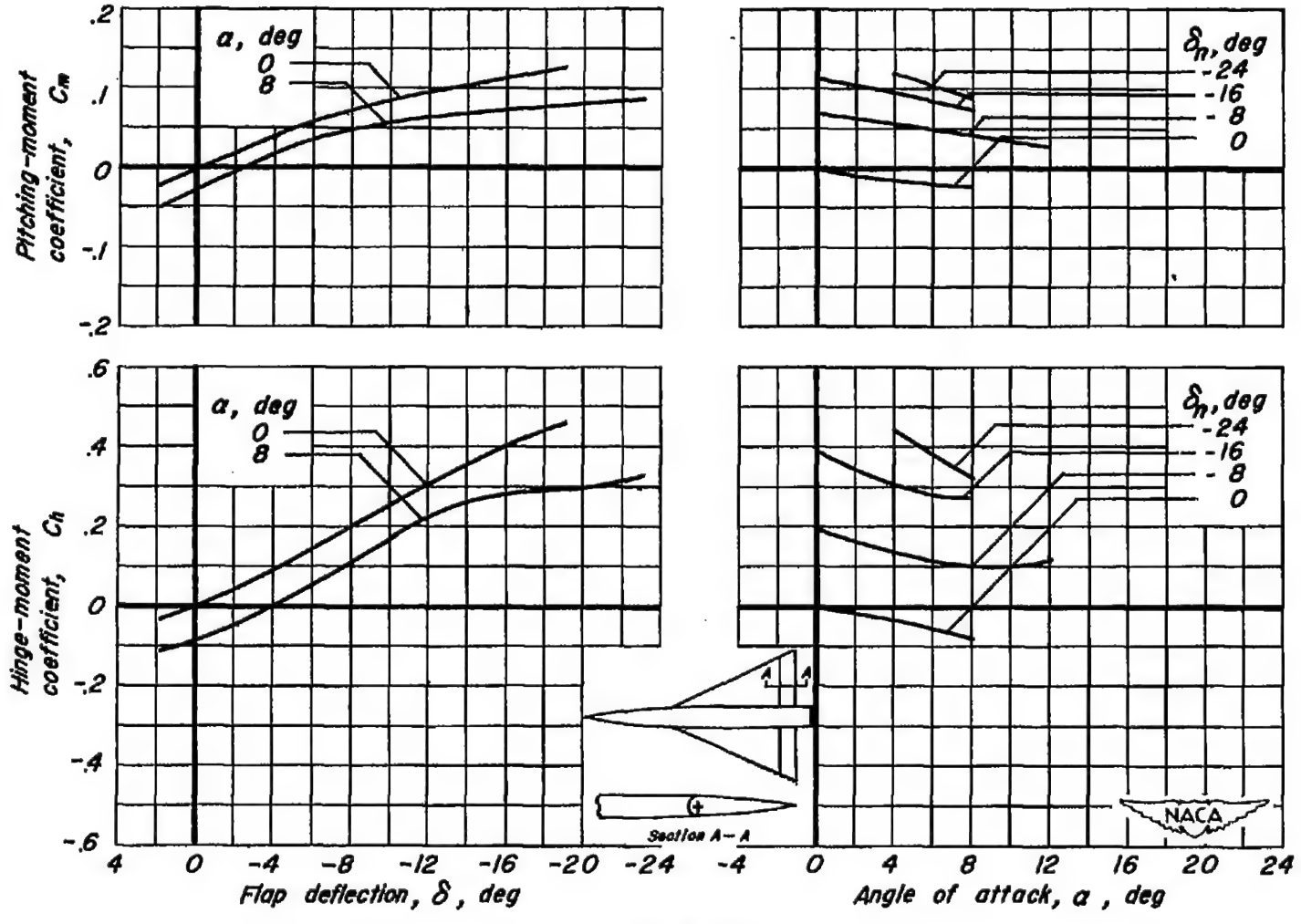


Figure 2.- Control-surface model mounted in the Ames 6- by 6-foot supersonic wind tunnel. (Fitted with 50-percent balance flaps.)



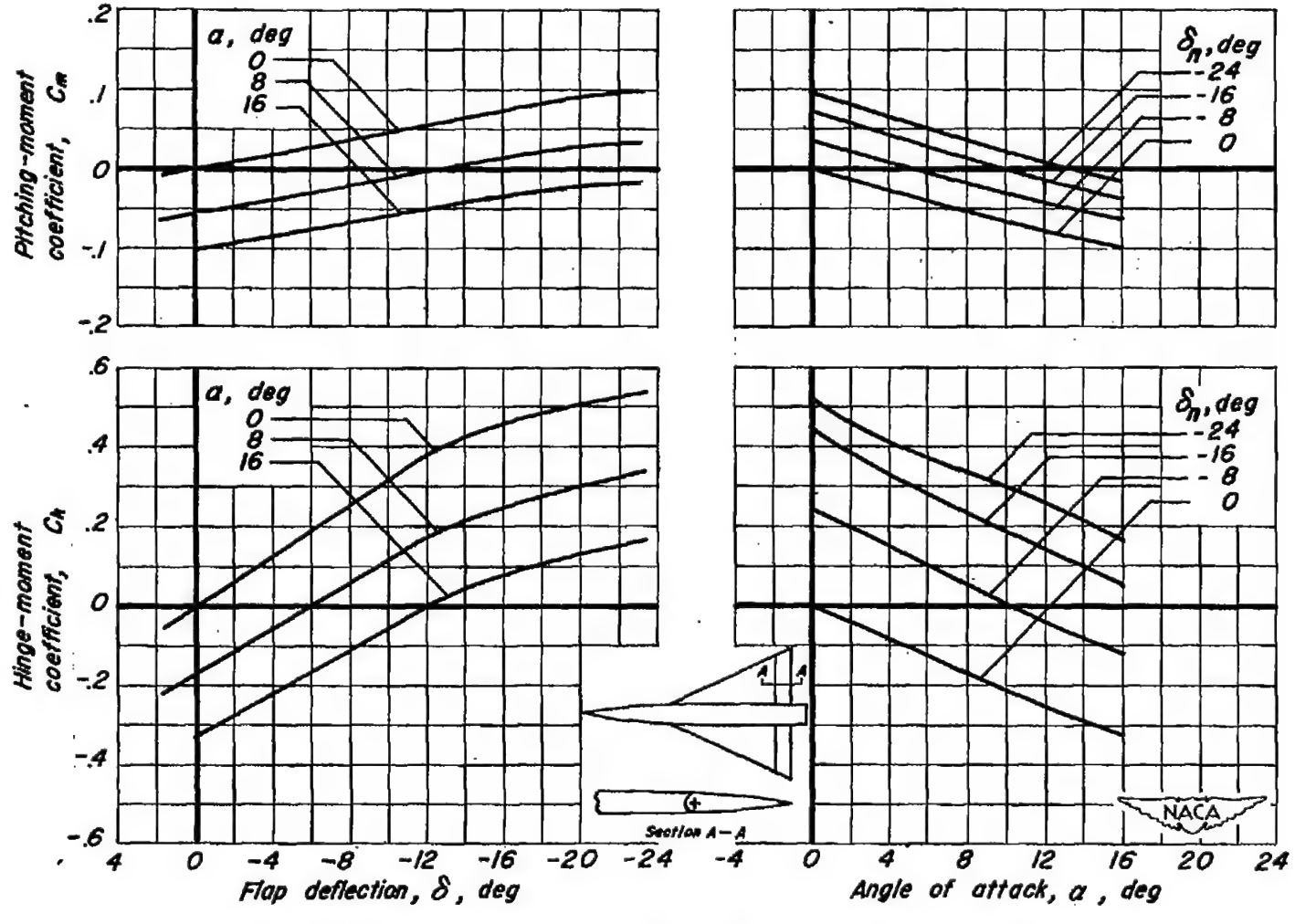
(a) M = 0.6

Figure 3. – The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the unbalanced flap. Data for two flaps. R = 4.4 x 10⁶.



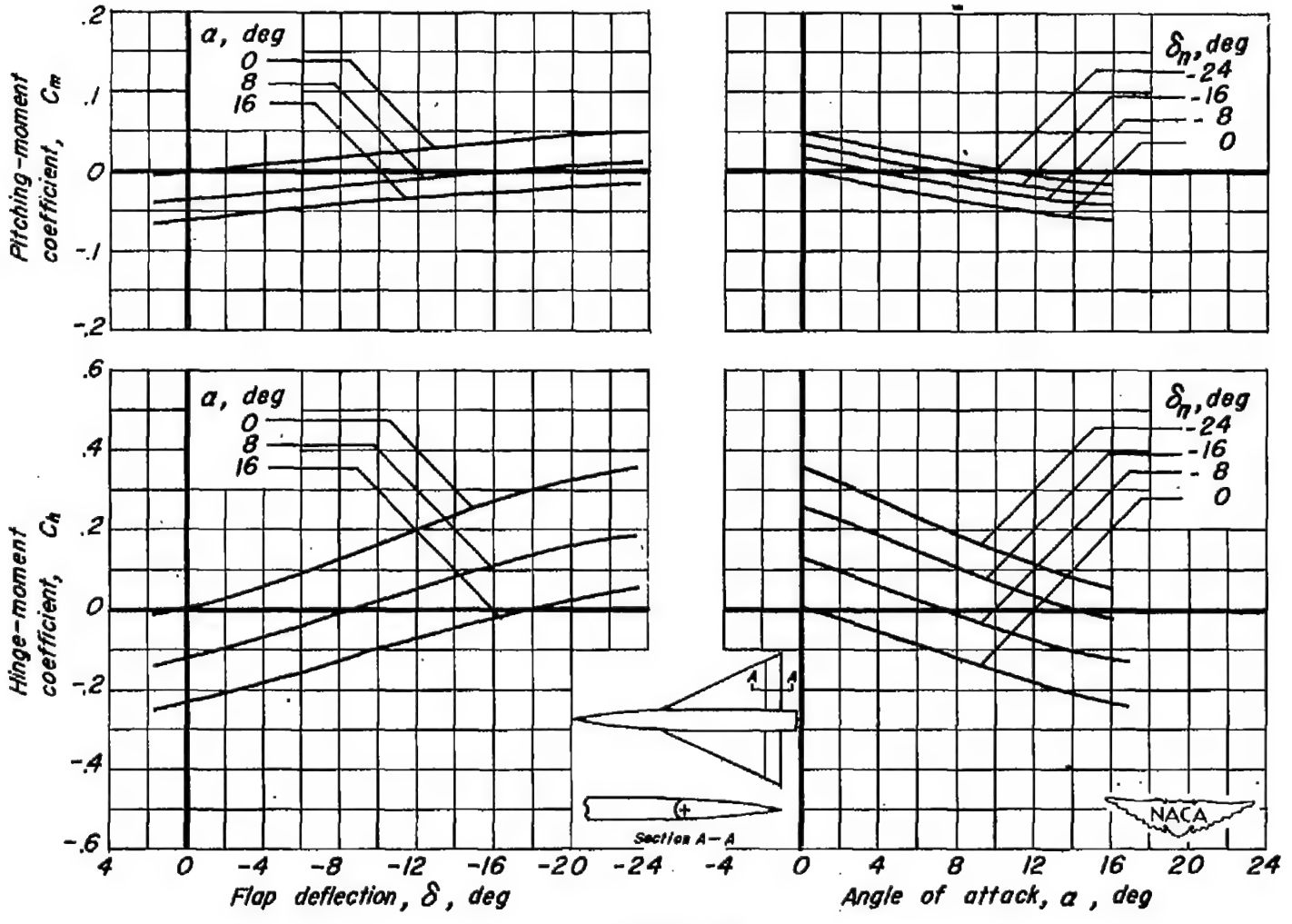
(b) M=0.9

Figure 3.— Continued.



(c) M = 1.3

Figure 3. – Continued.



(d) M = 1.9

Figure 3.—Concluded.

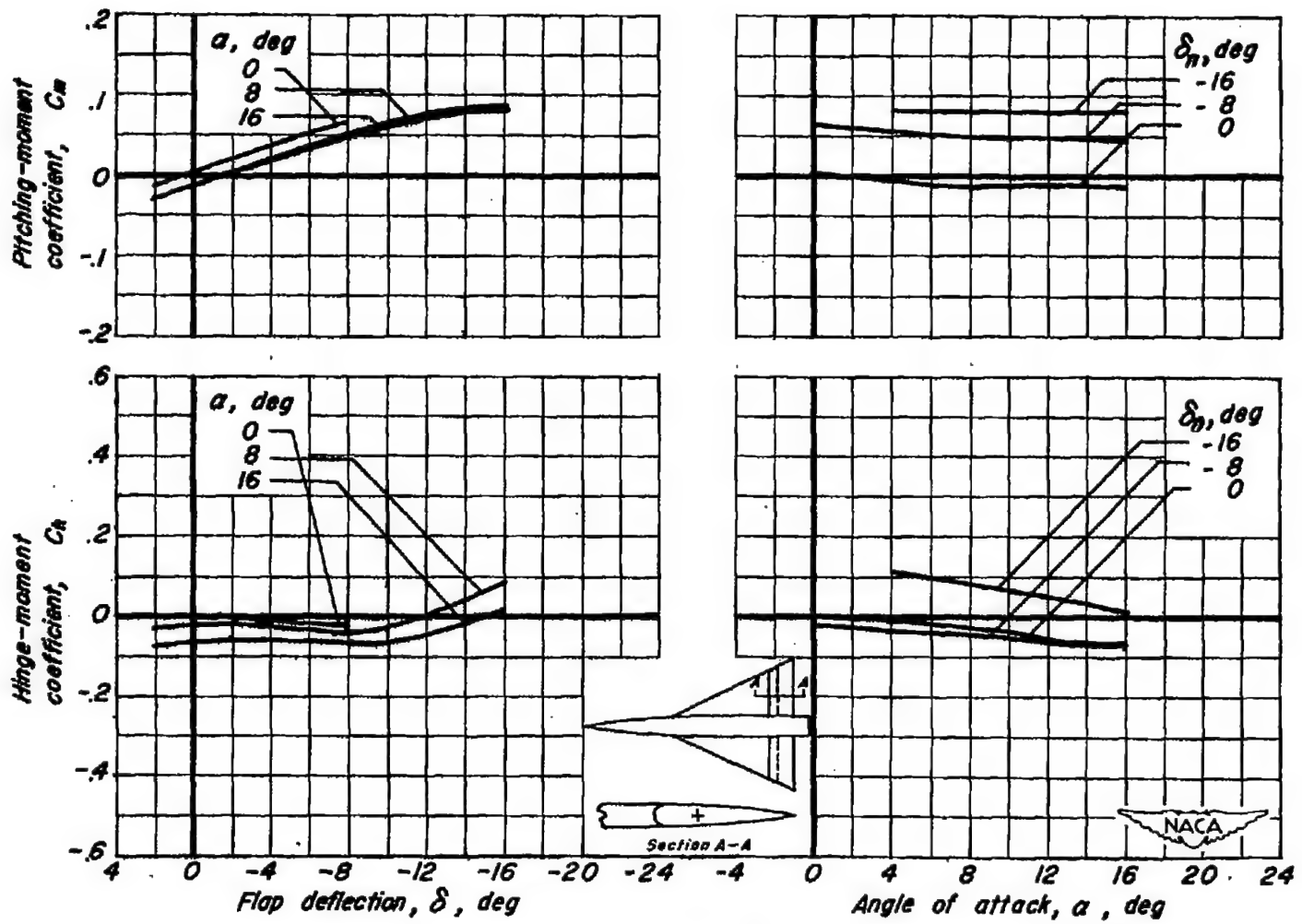
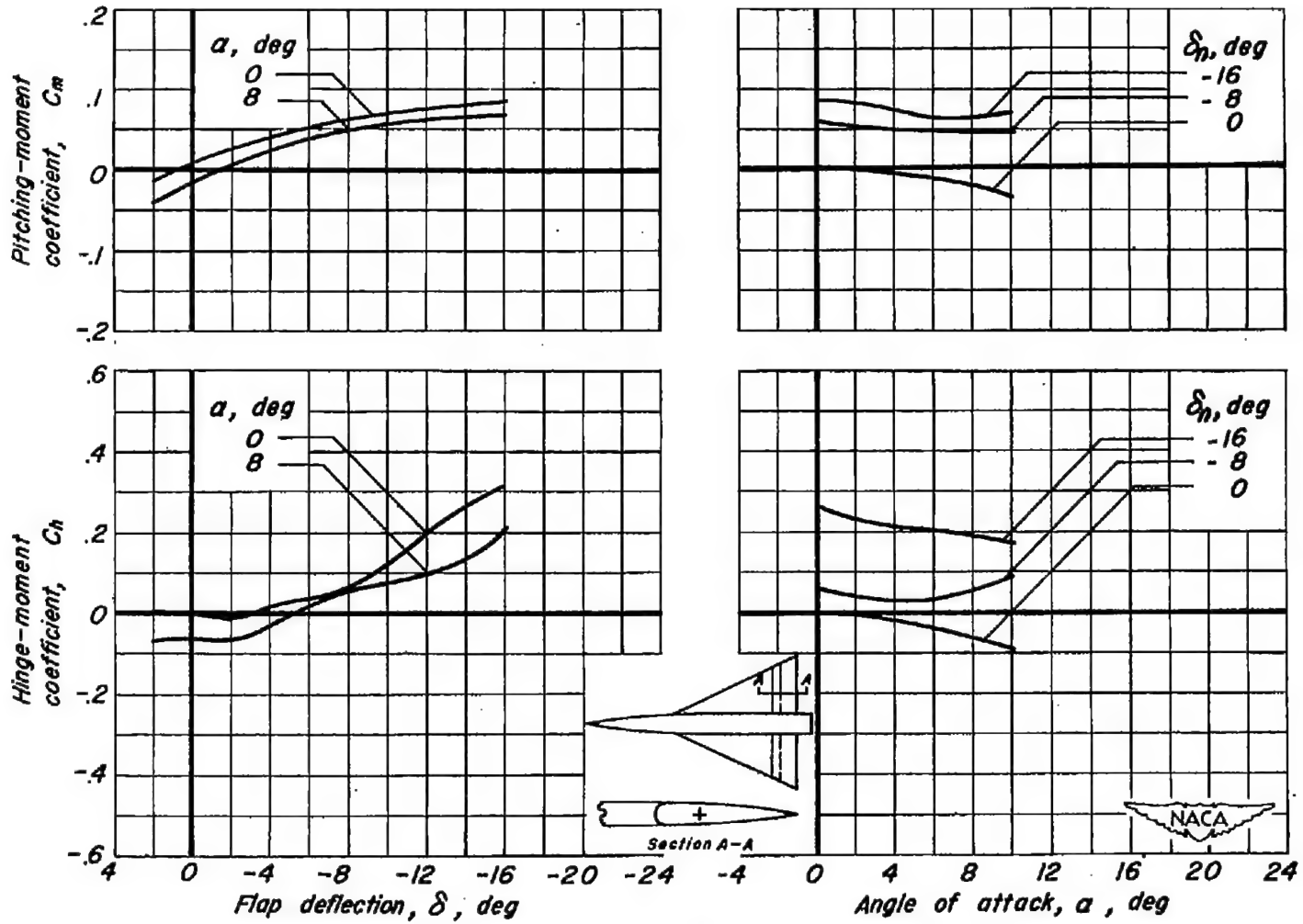
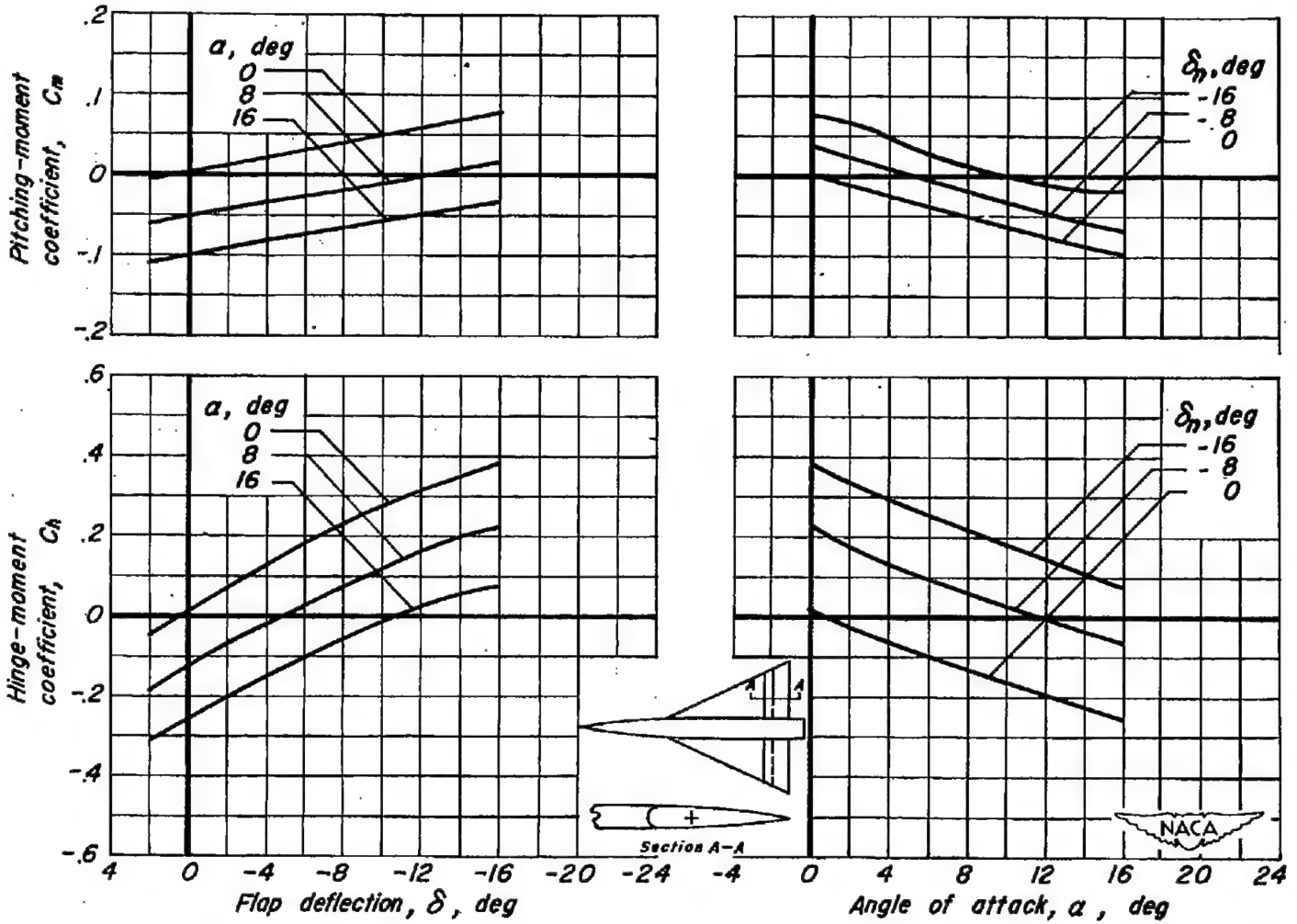


Figure 4. – The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 50-percent balance flap (true-contour wing profile; round nose flap). Data for two flaps. R = 4.4 x 10⁶



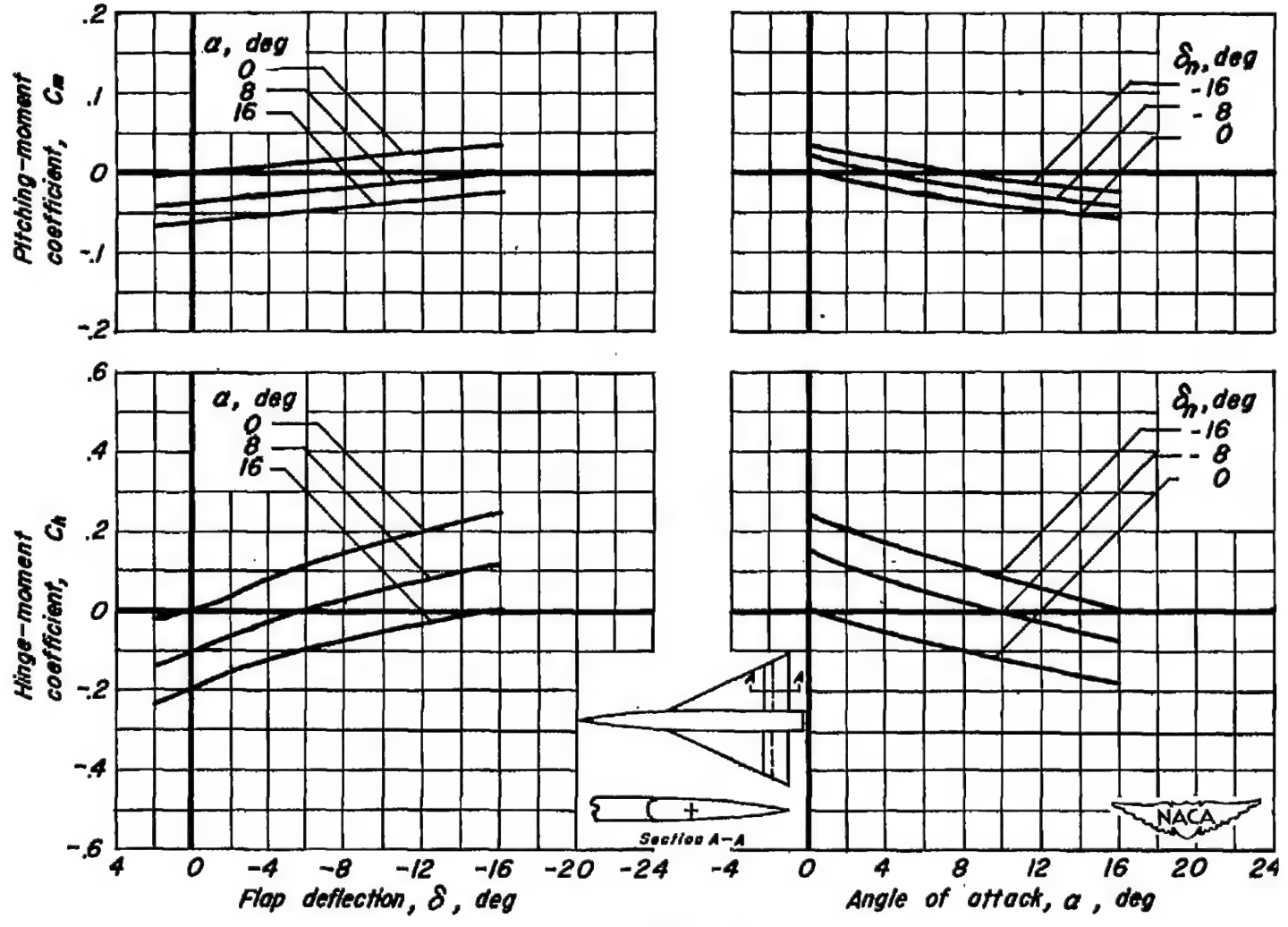
(b) M=0.9

Figure 4.- Continued.



(c) M = 1.3

Figure 4.–Continued.



(d) M = 1.9

Figure 4.—Concluded.

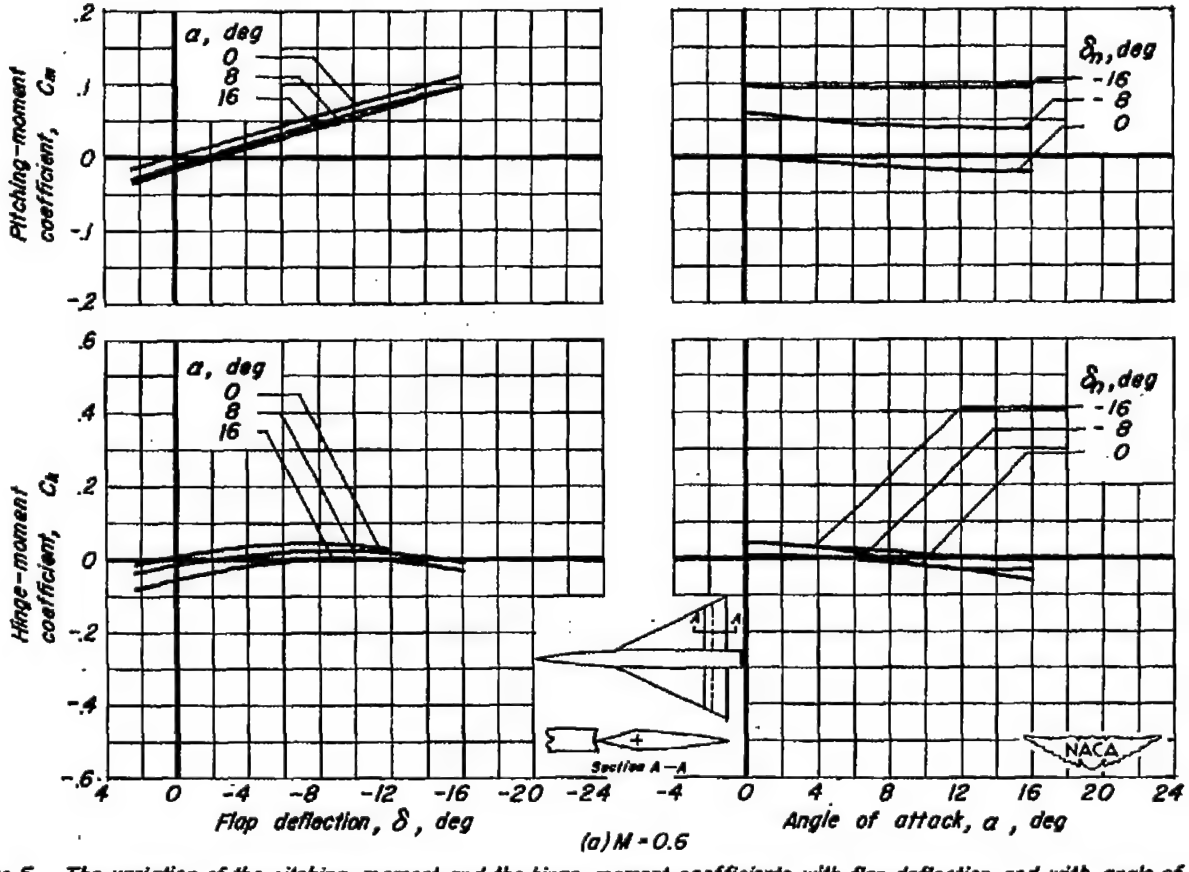
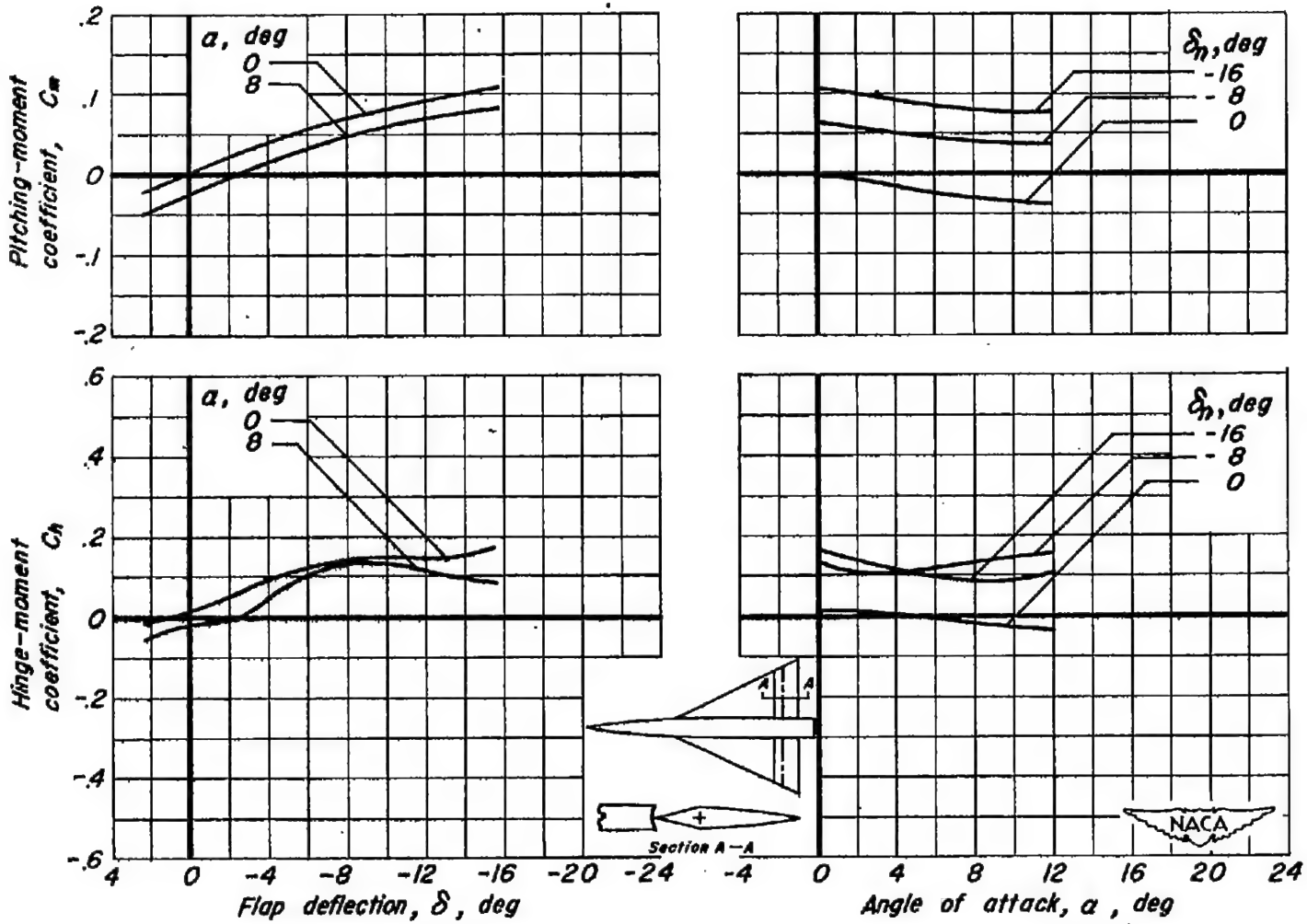
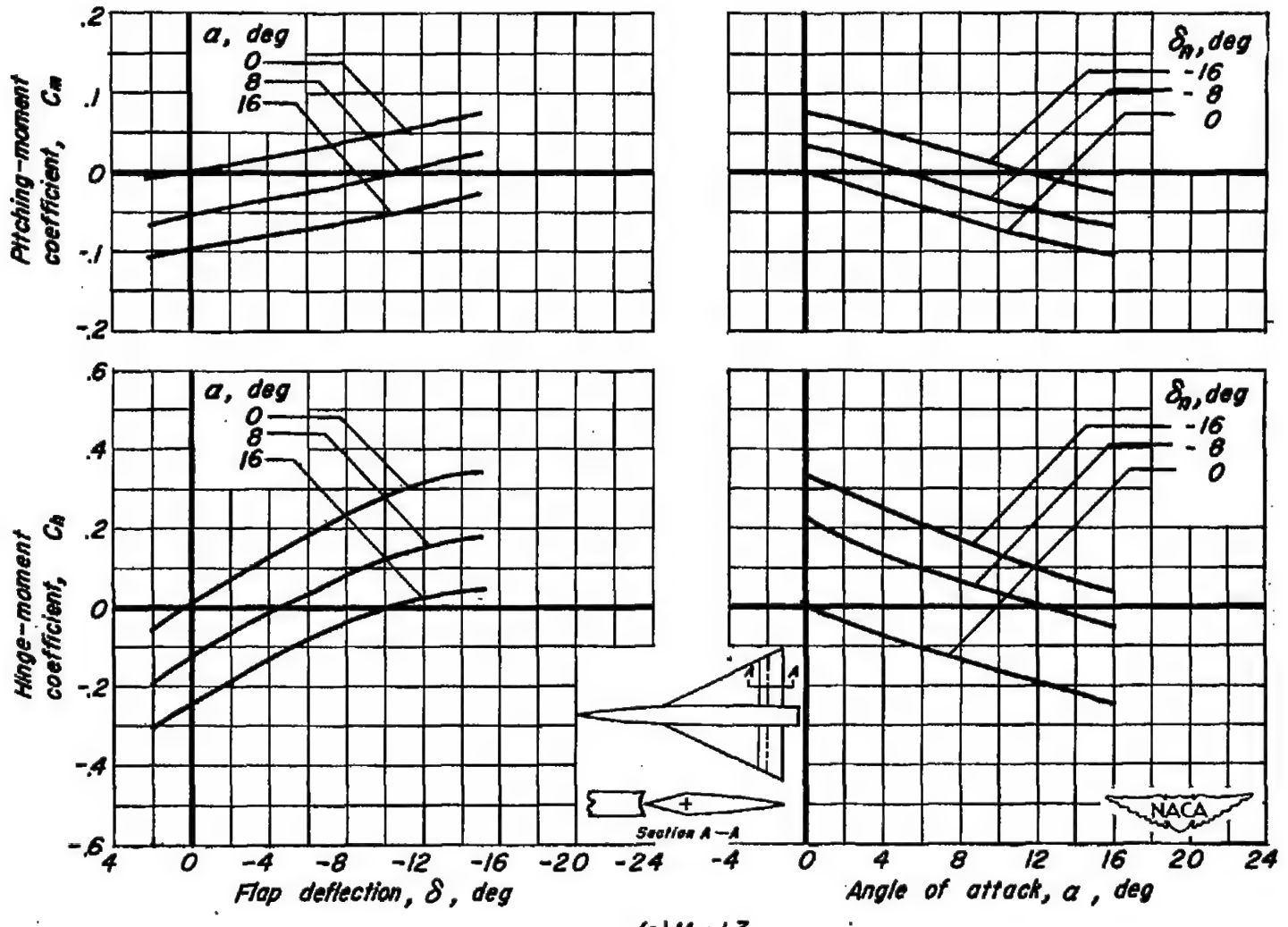


Figure 5.—The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 50-percent balance flap (true-contour wing profile; sharp nose flap). Data for two flaps. $R = 4.4 \times 10^6$.



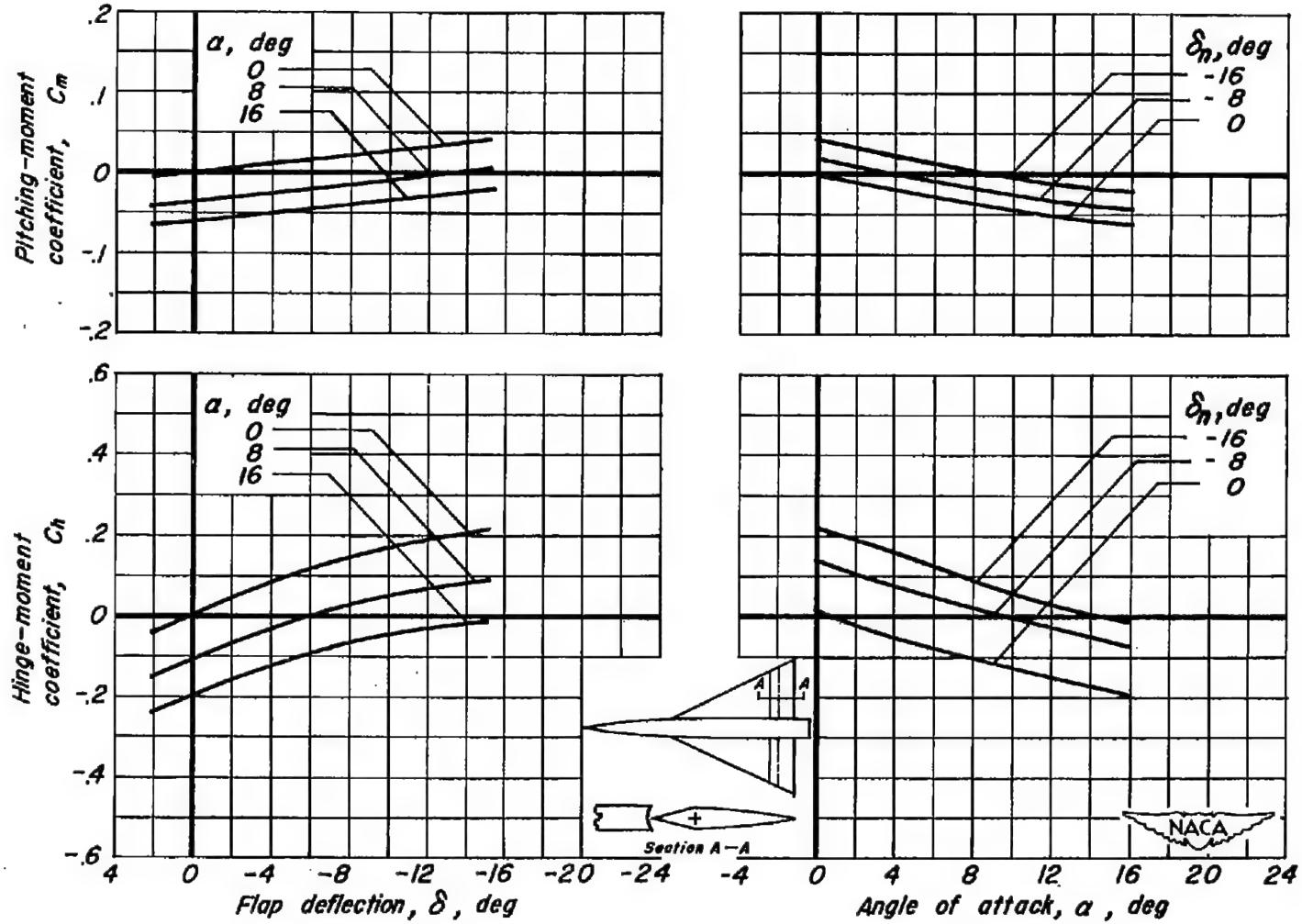
(b) M = 0.9

Figure 5. – Continued.



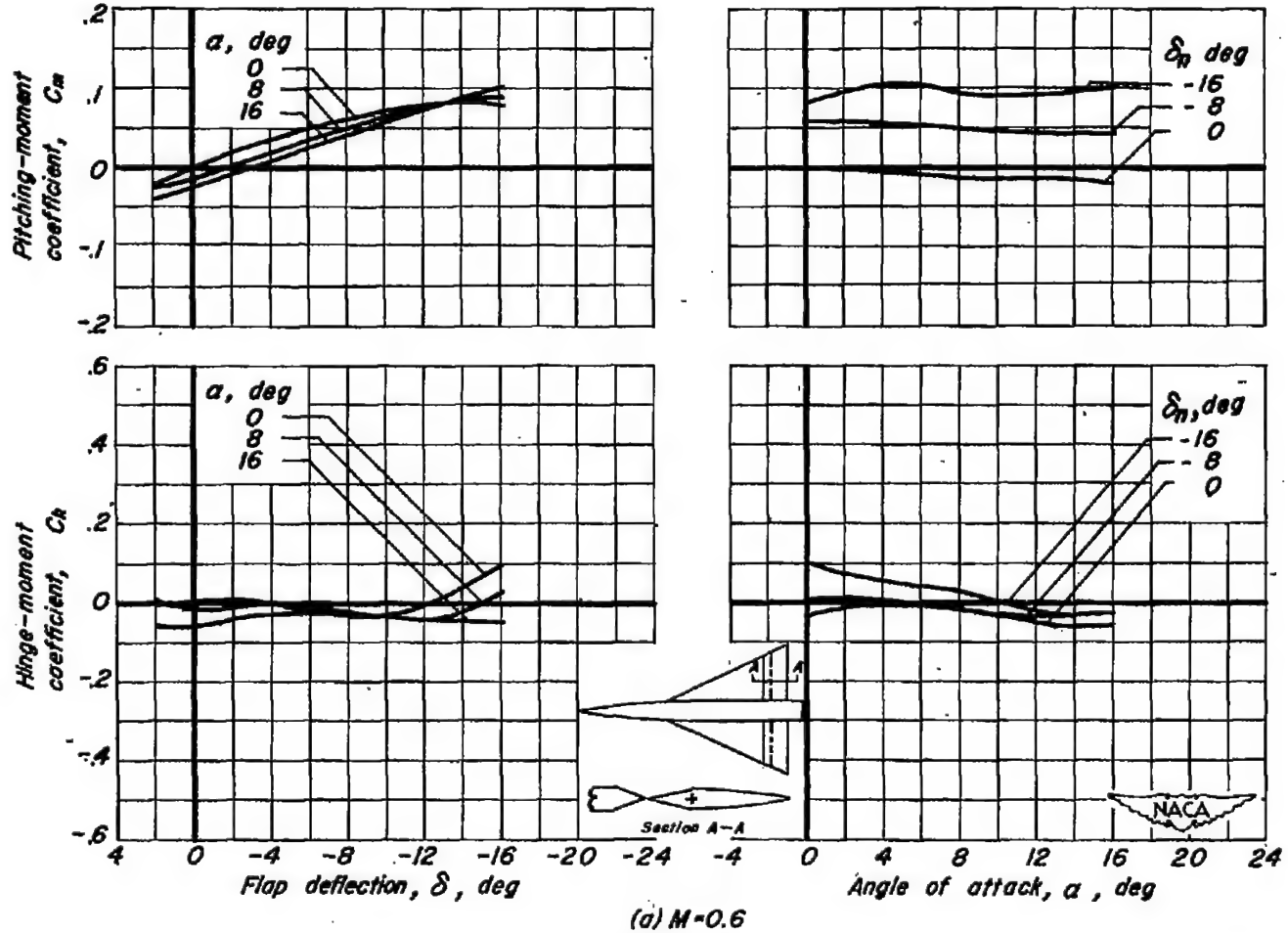
(c) M = 1.3

Figure 5.—Continued.



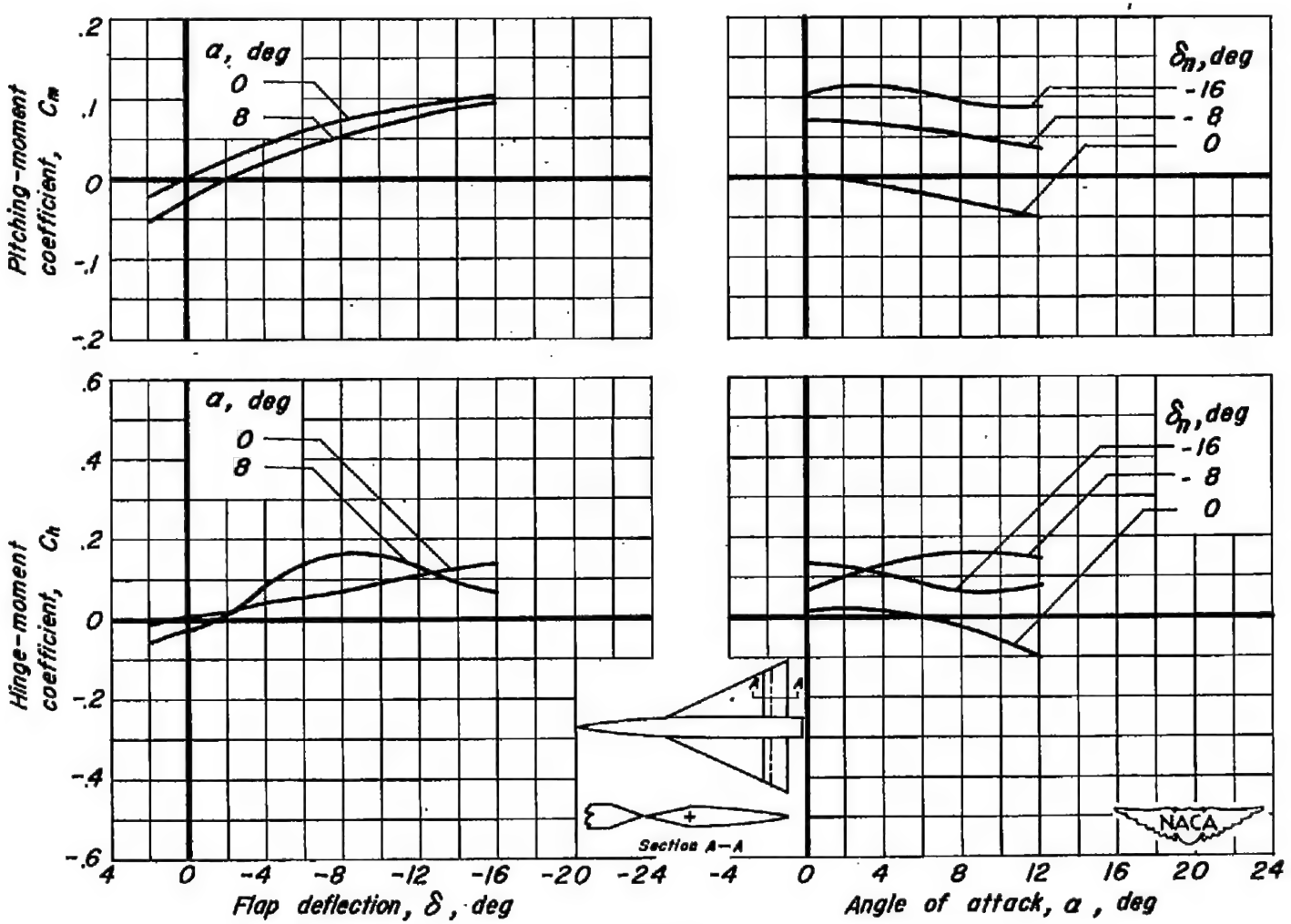
(d) M = 1.9

Figure 5.—Concluded.



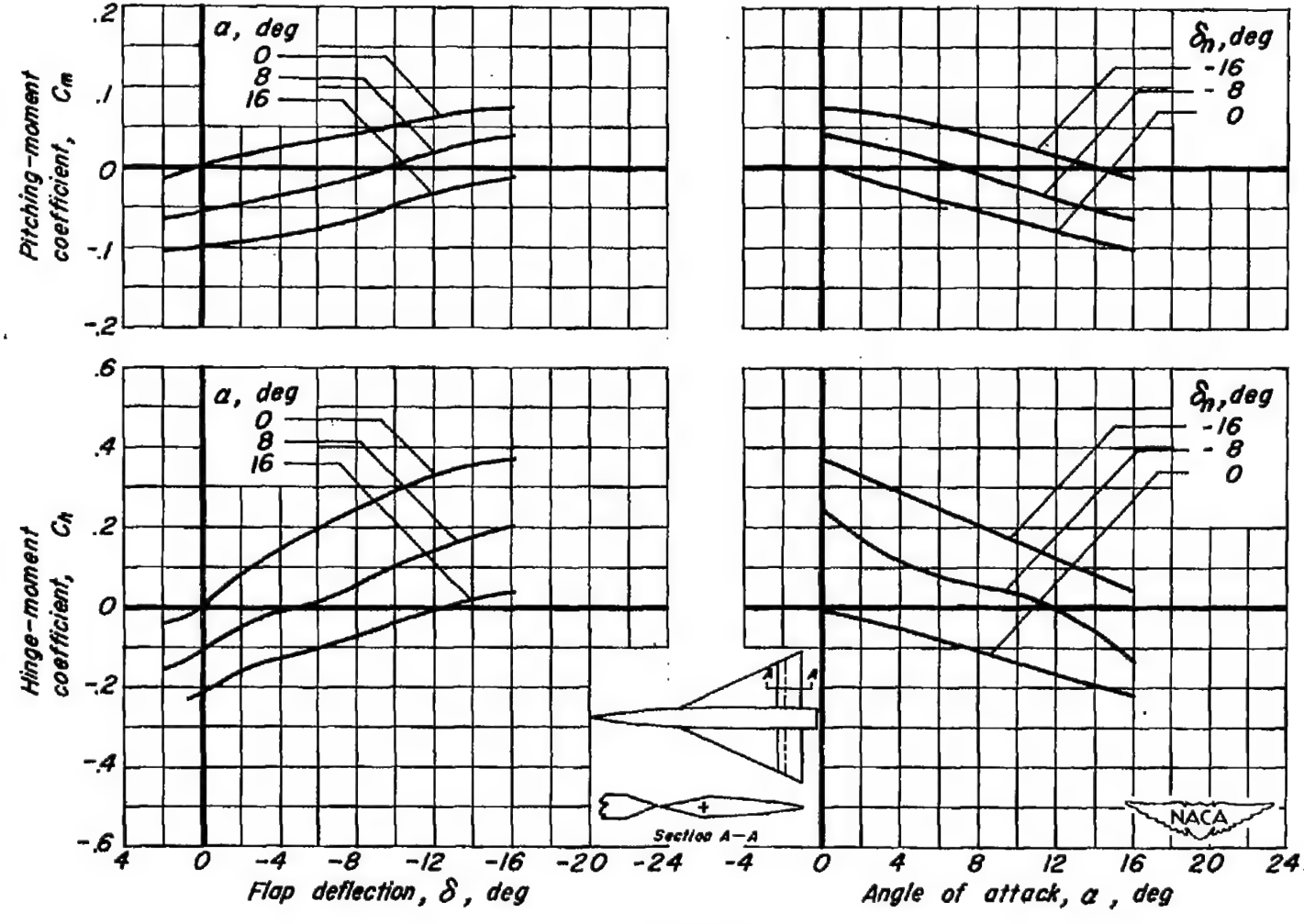
(a) M=0.6

Figure 6. – The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 50-percent balance flap, (modified wing profile; sharp nose flap). Data for two flaps. R = 4.4 x 10⁶.



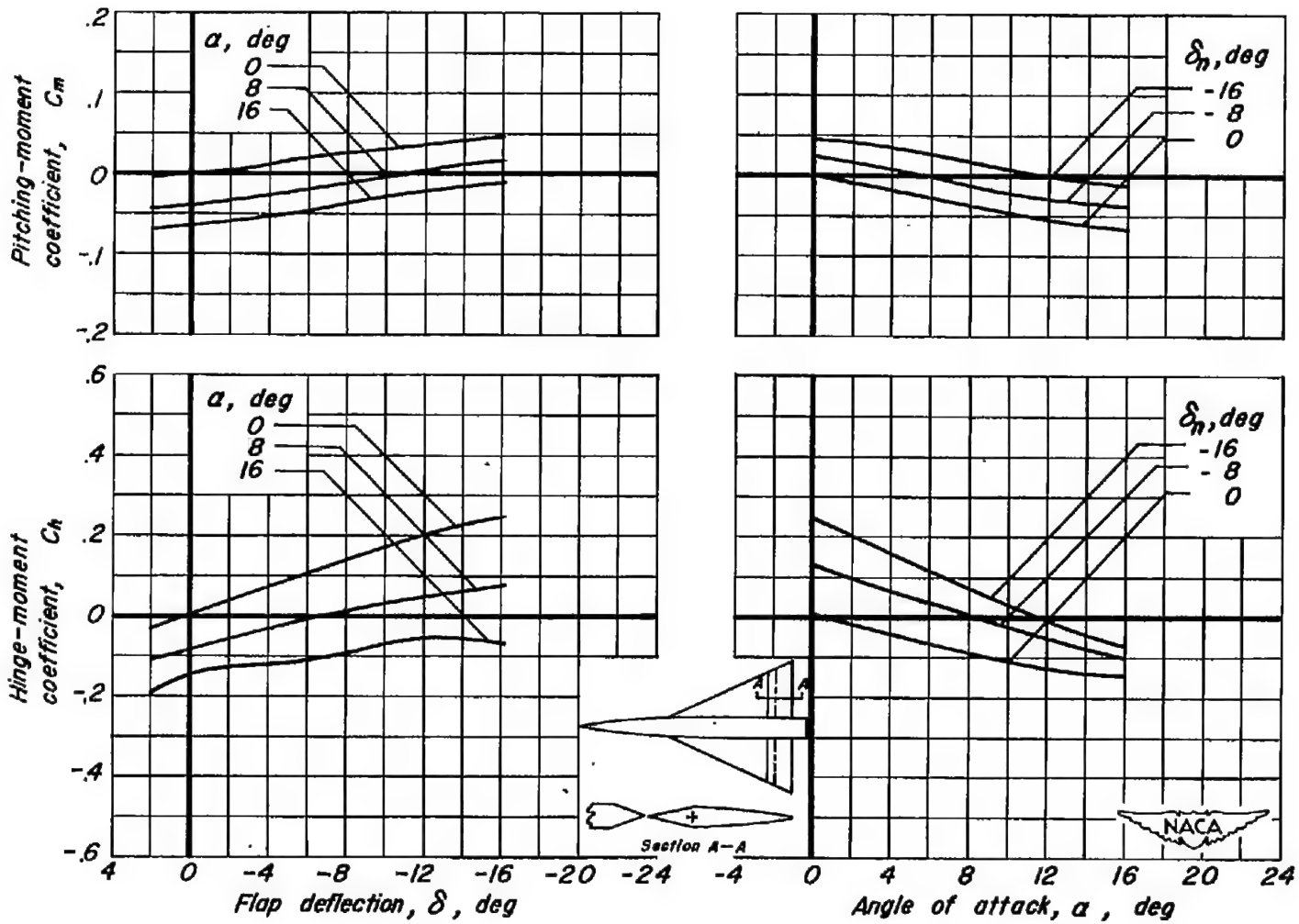
(b) M = 0.9

Figure 6.- Continued.



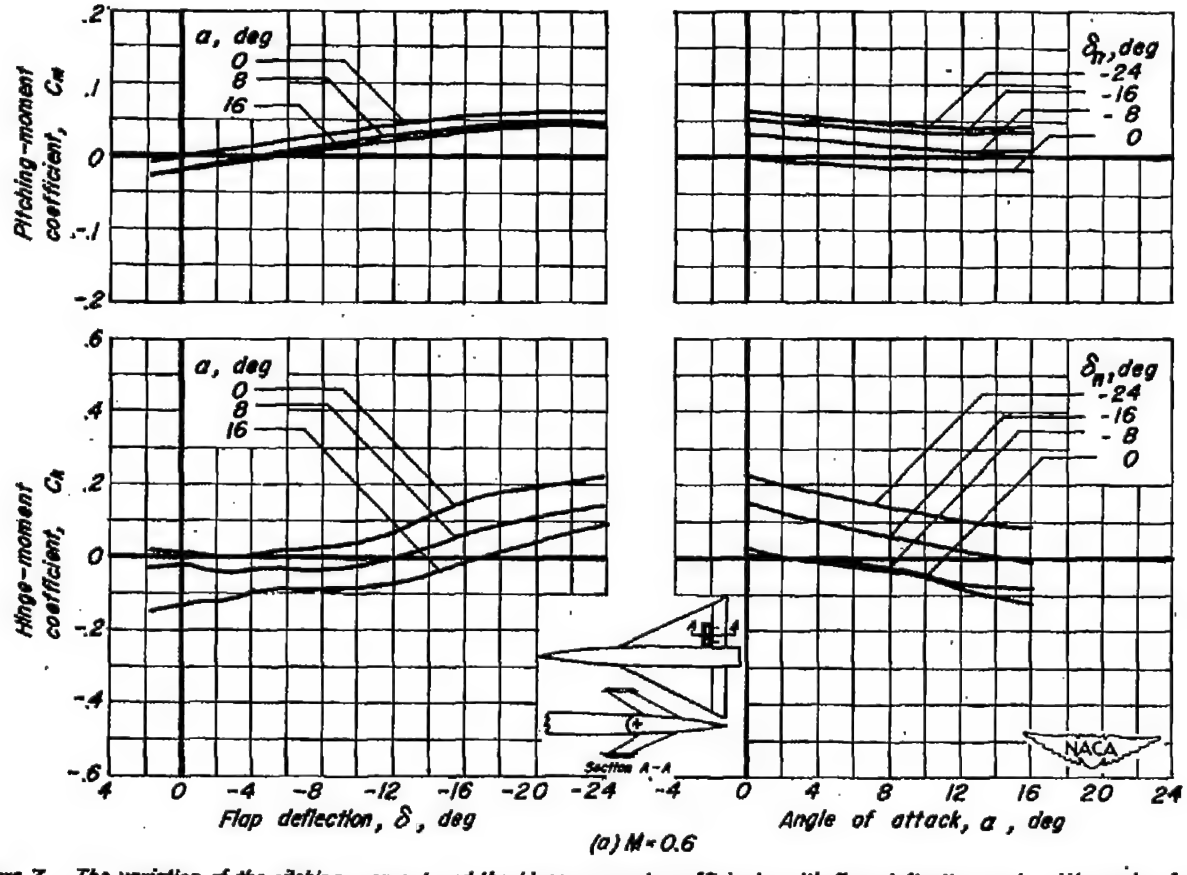
(c) M=1.3

Figure 6.–Continued.



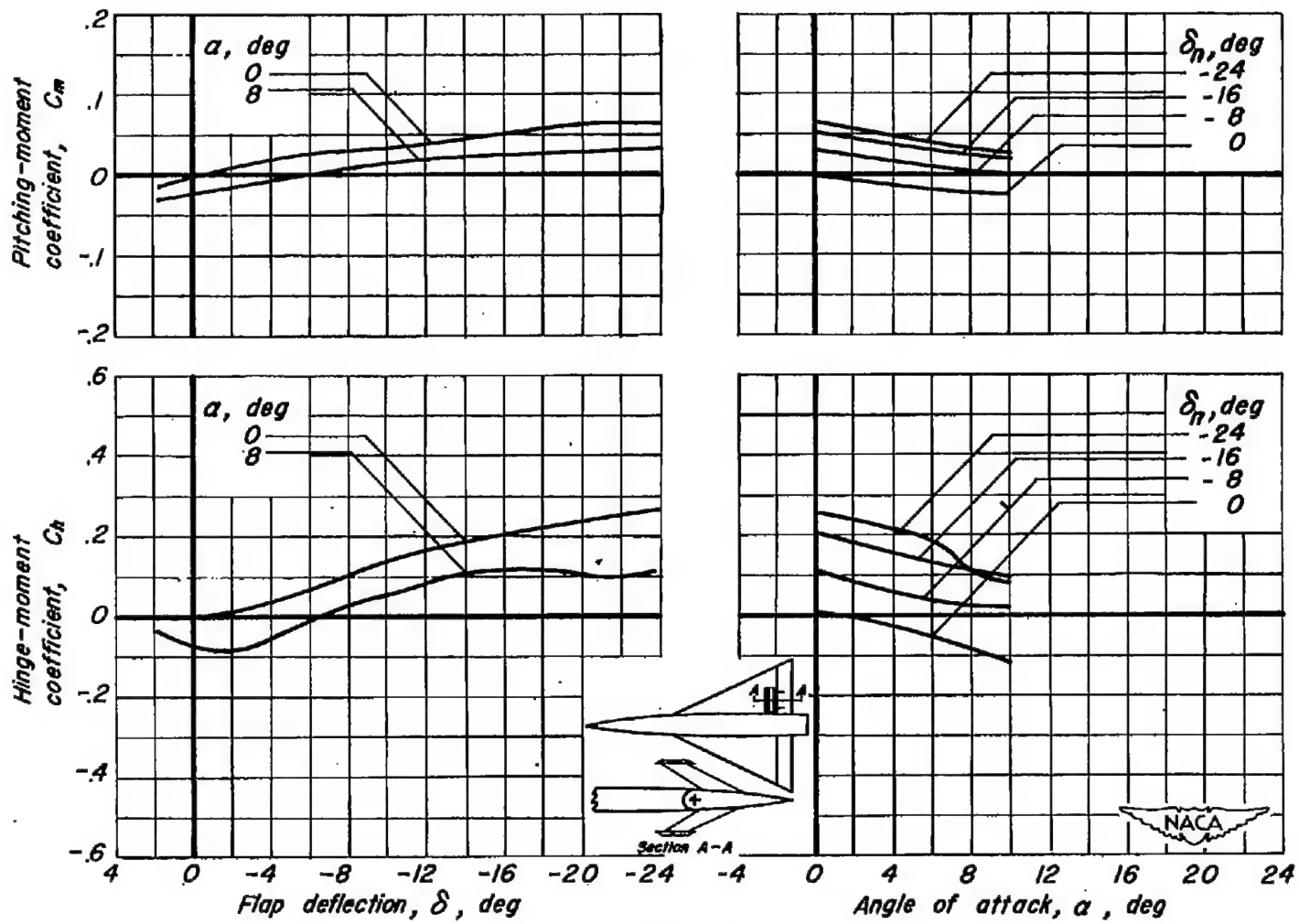
(d) M = 1.9

Figure 6.– Concluded.



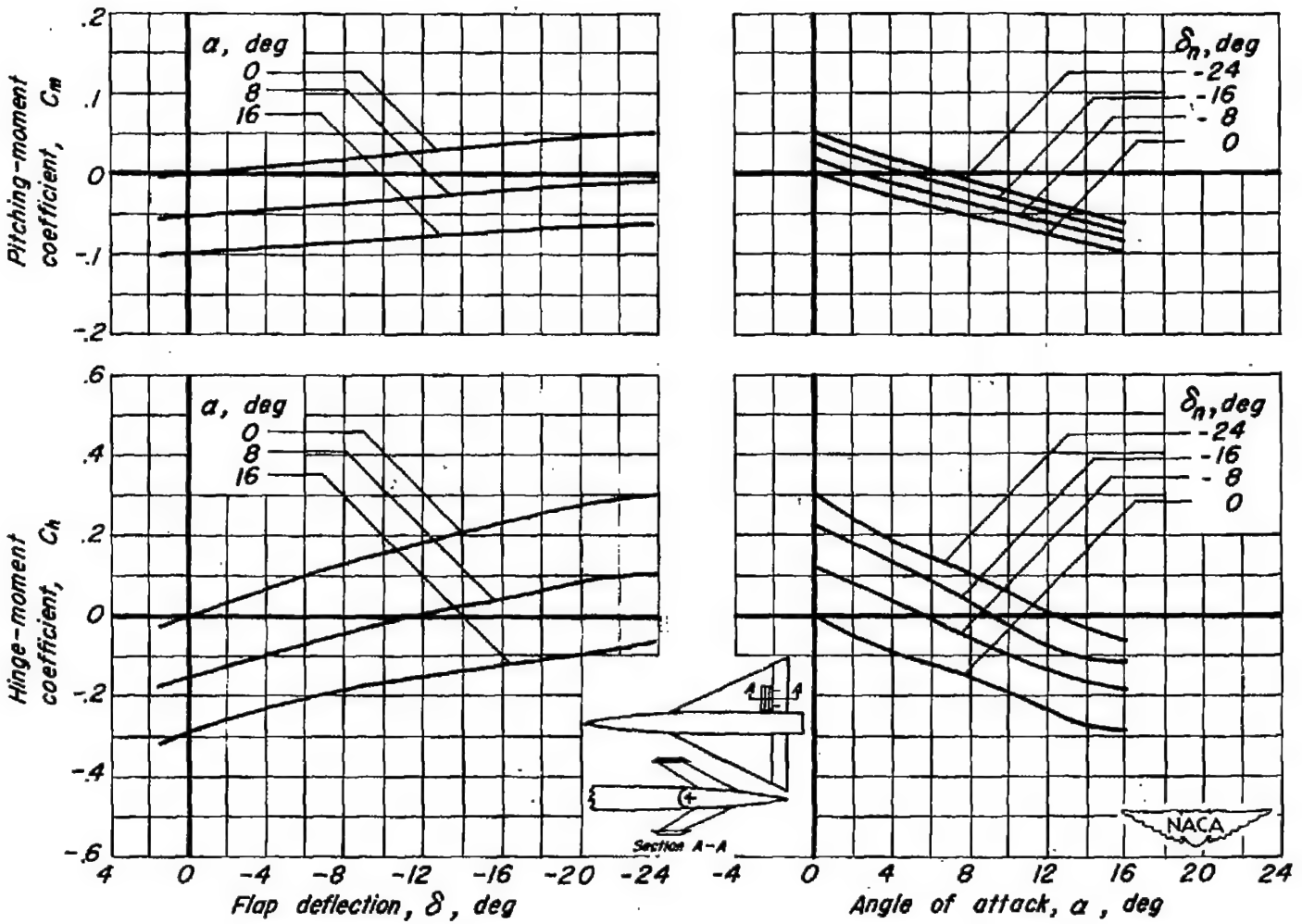
(a) M = 0.6

Figure 7.- The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 38-percent-span paddle balance on the upper and lower surfaces of the flap. Data for one flap. $R = 4.4 \times 10^6$.



(b) M = 0.9

Figure 7.- Continued.



(c) M=1.3

Figure 7.- Continued.

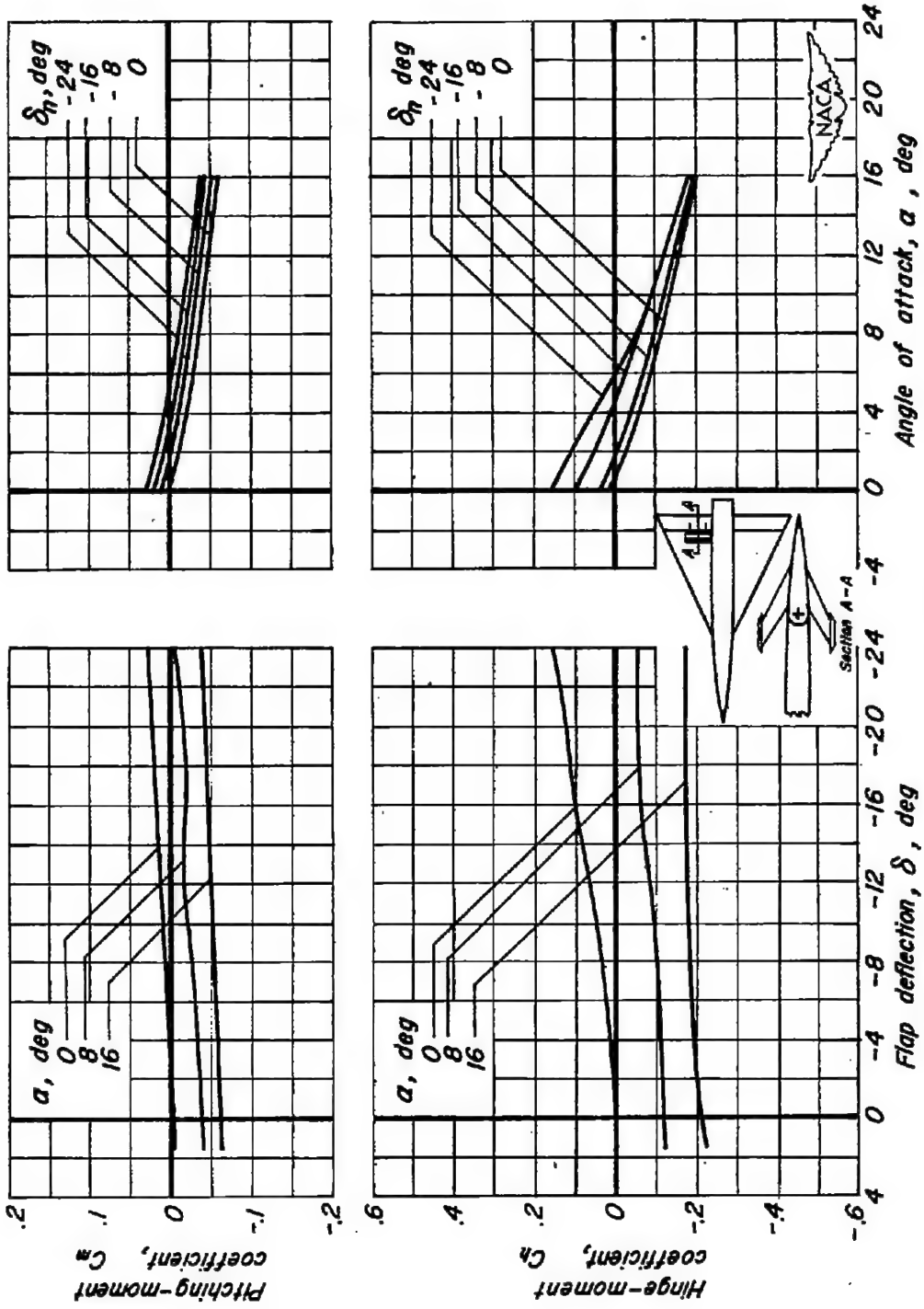
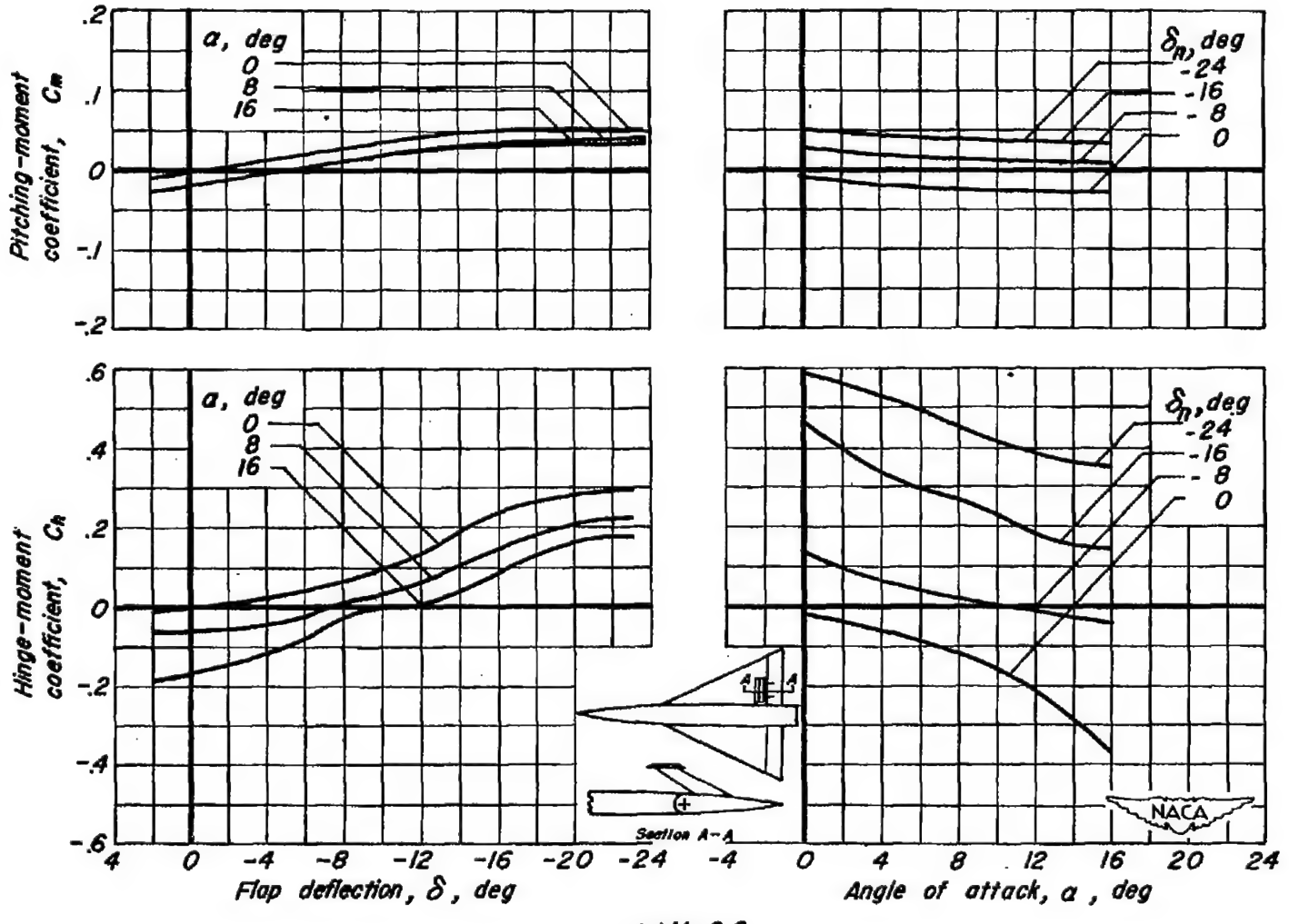
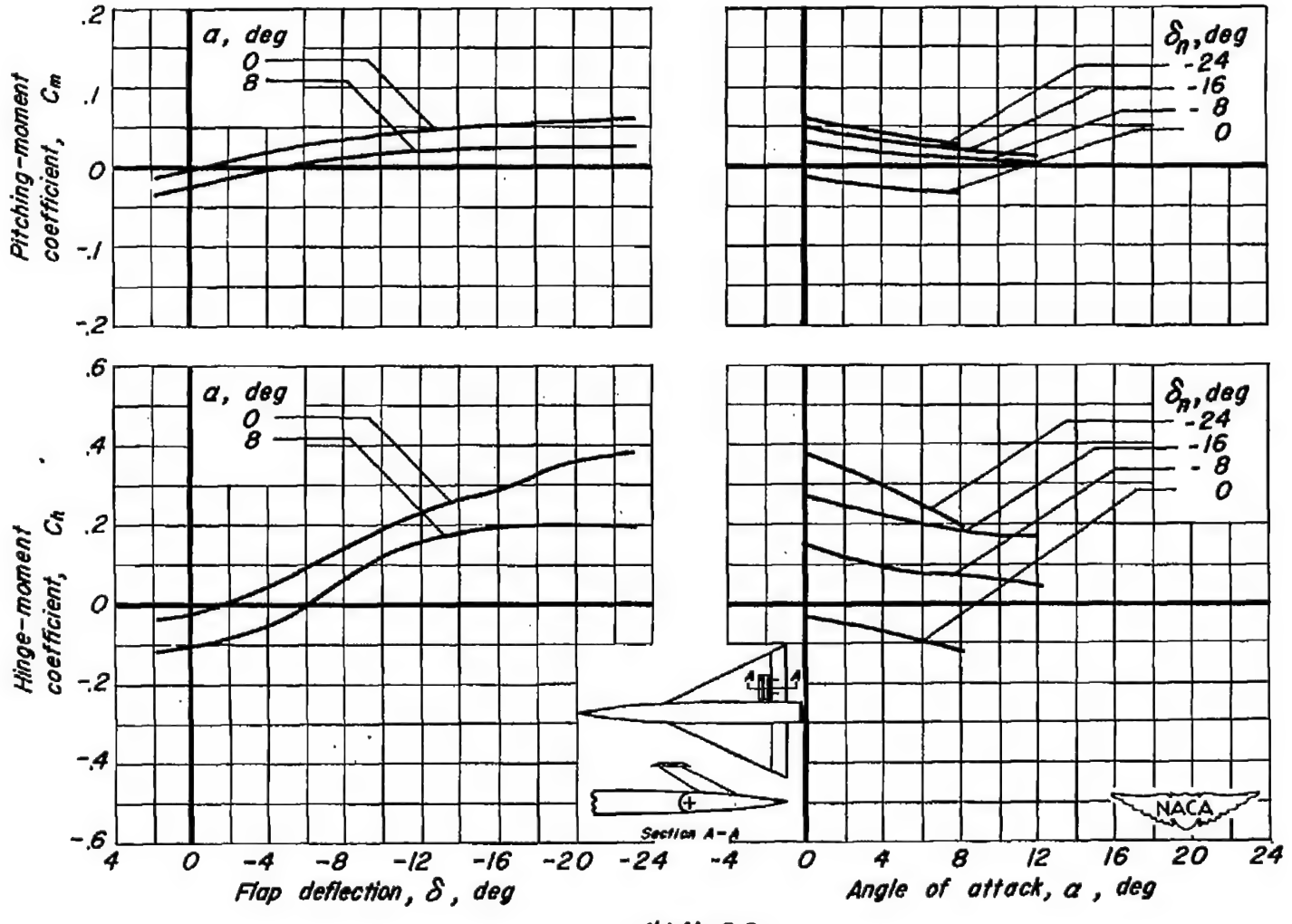


Figure 7.- Concluded.



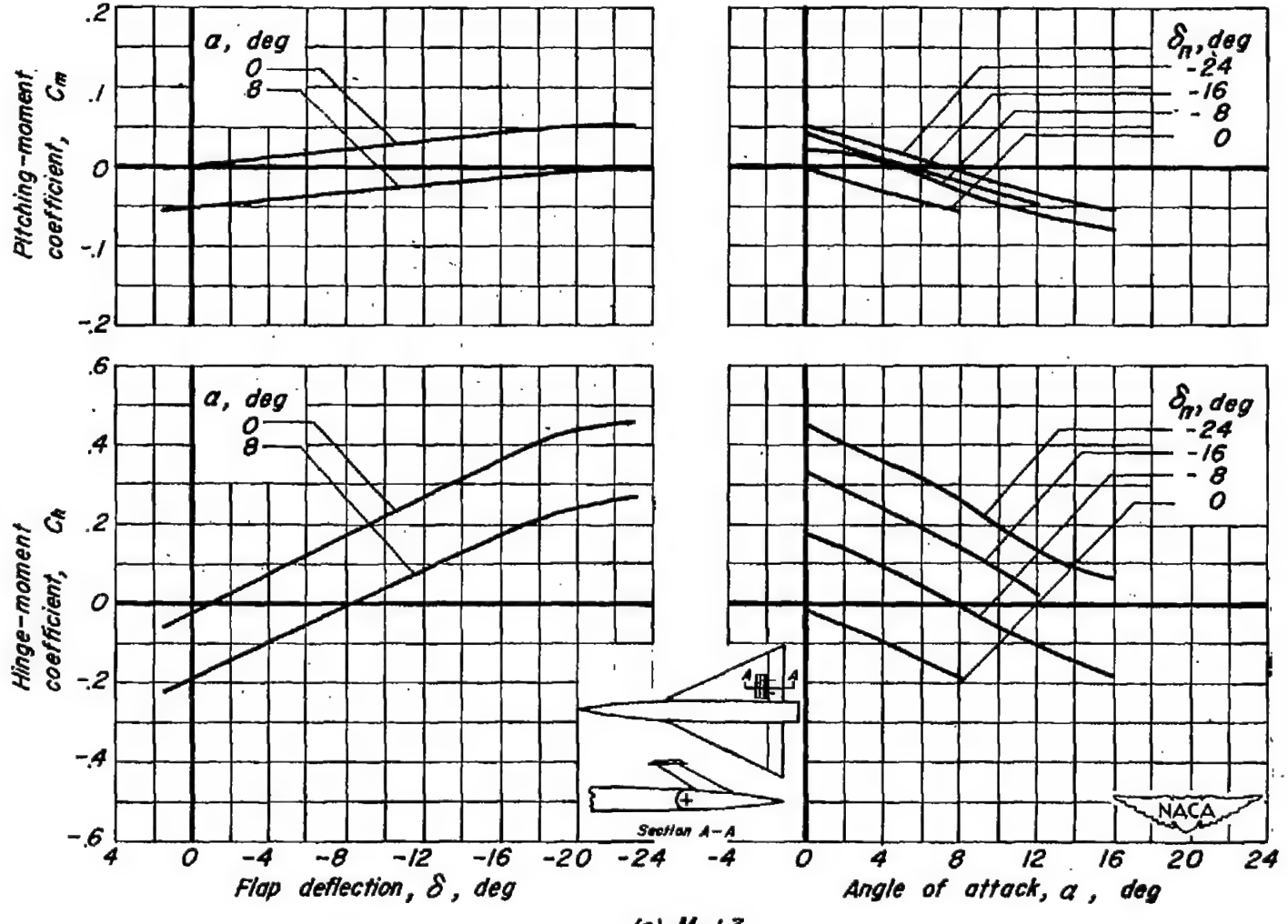
(a) M = 0.6

Figure 8.— The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 38-percent-span paddle balance on the upper surface of the flap. Data for one flap. R = 4.4 x 10⁶.



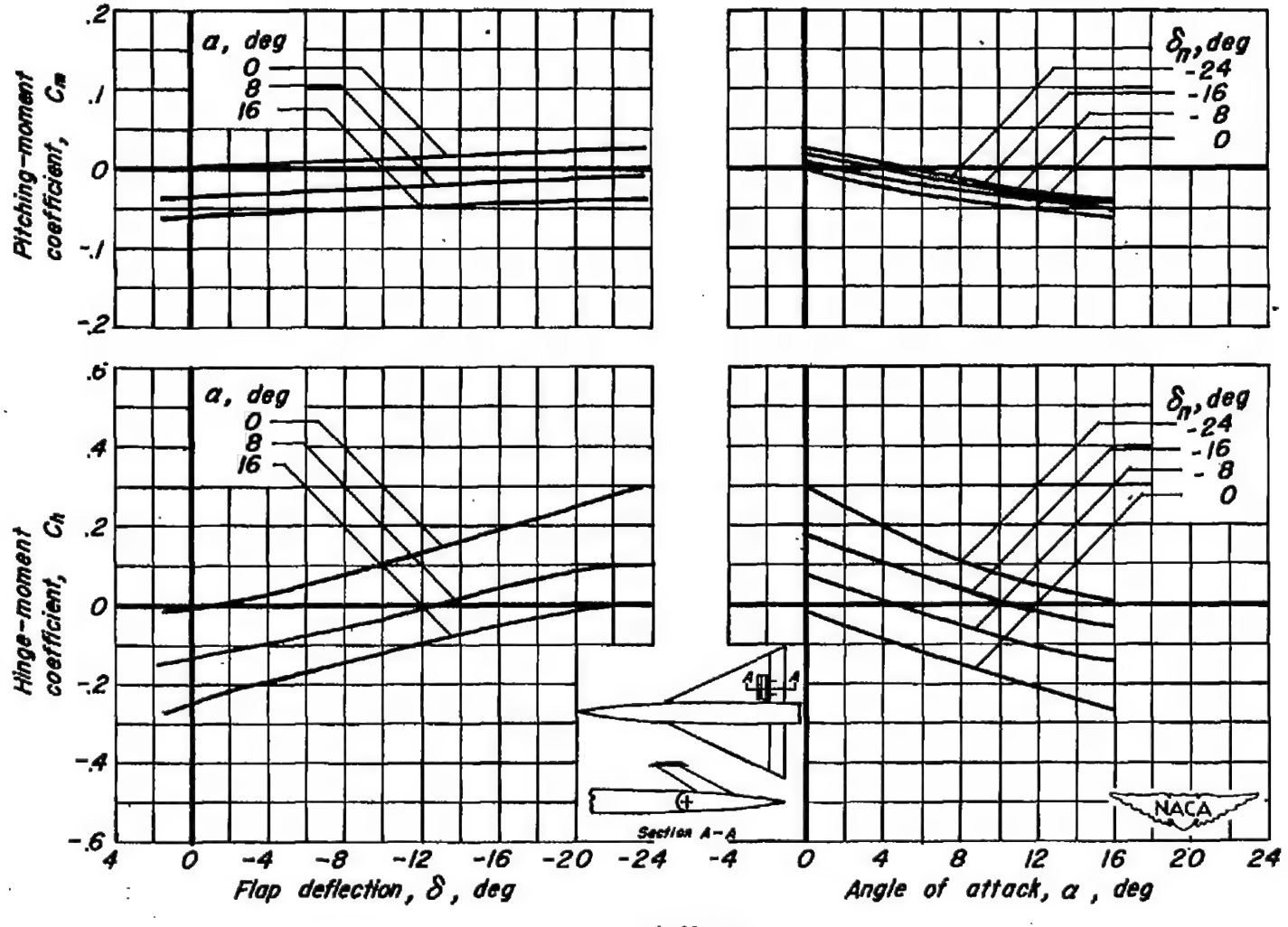
(b) M = 0.9

Figure 8.– Continued.



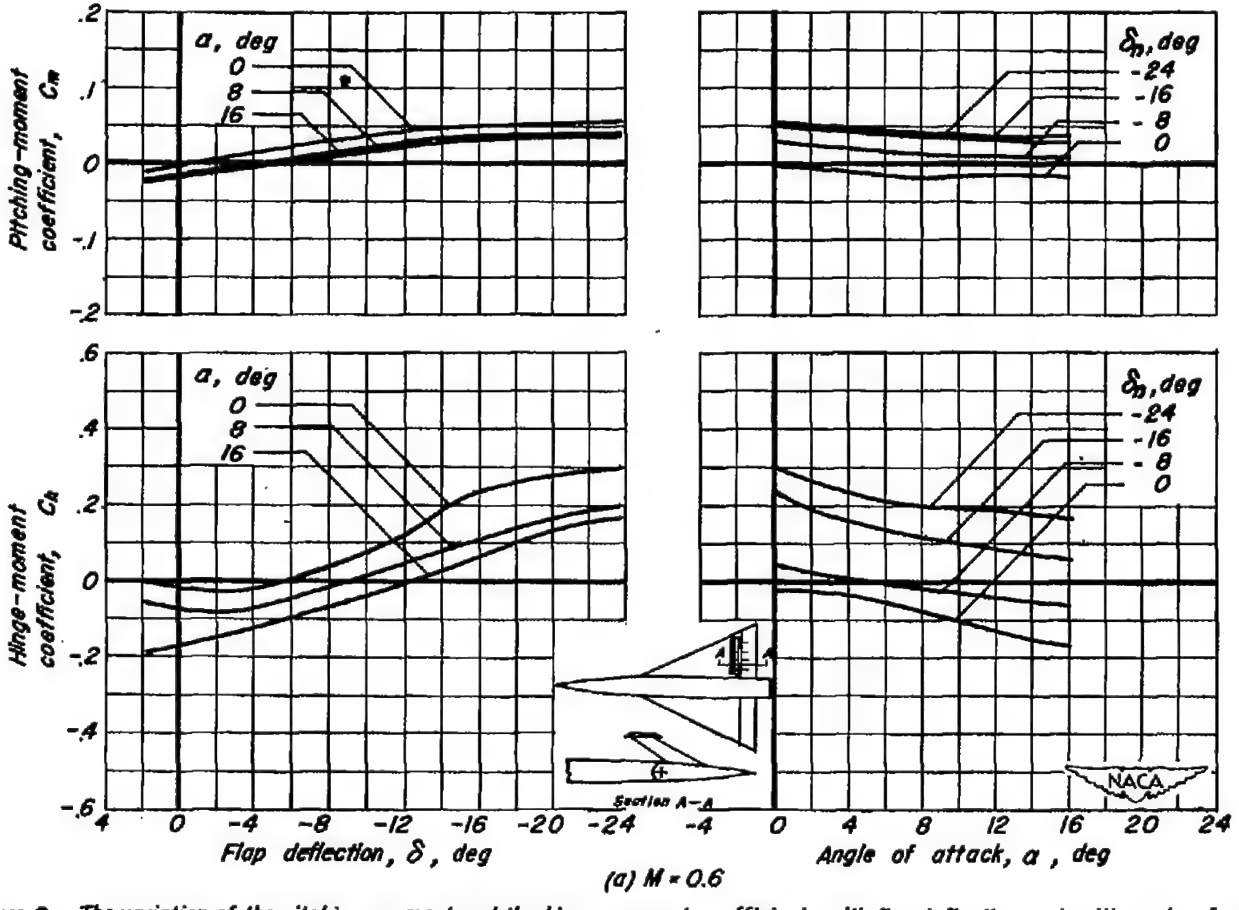
(c) M=1.3

Figure 8.– Continued.



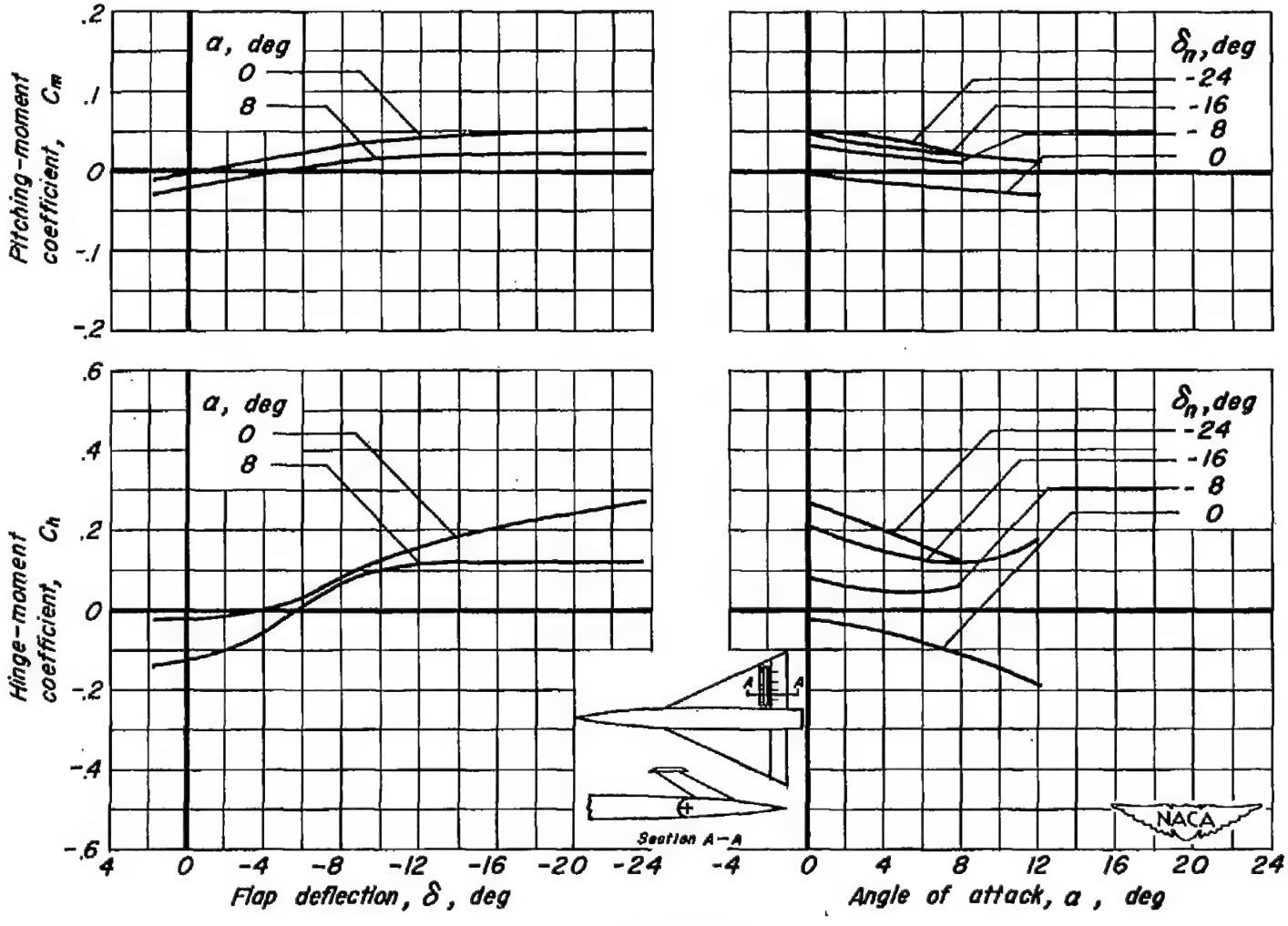
(d) M = 1.9

Figure 8. - Concluded.



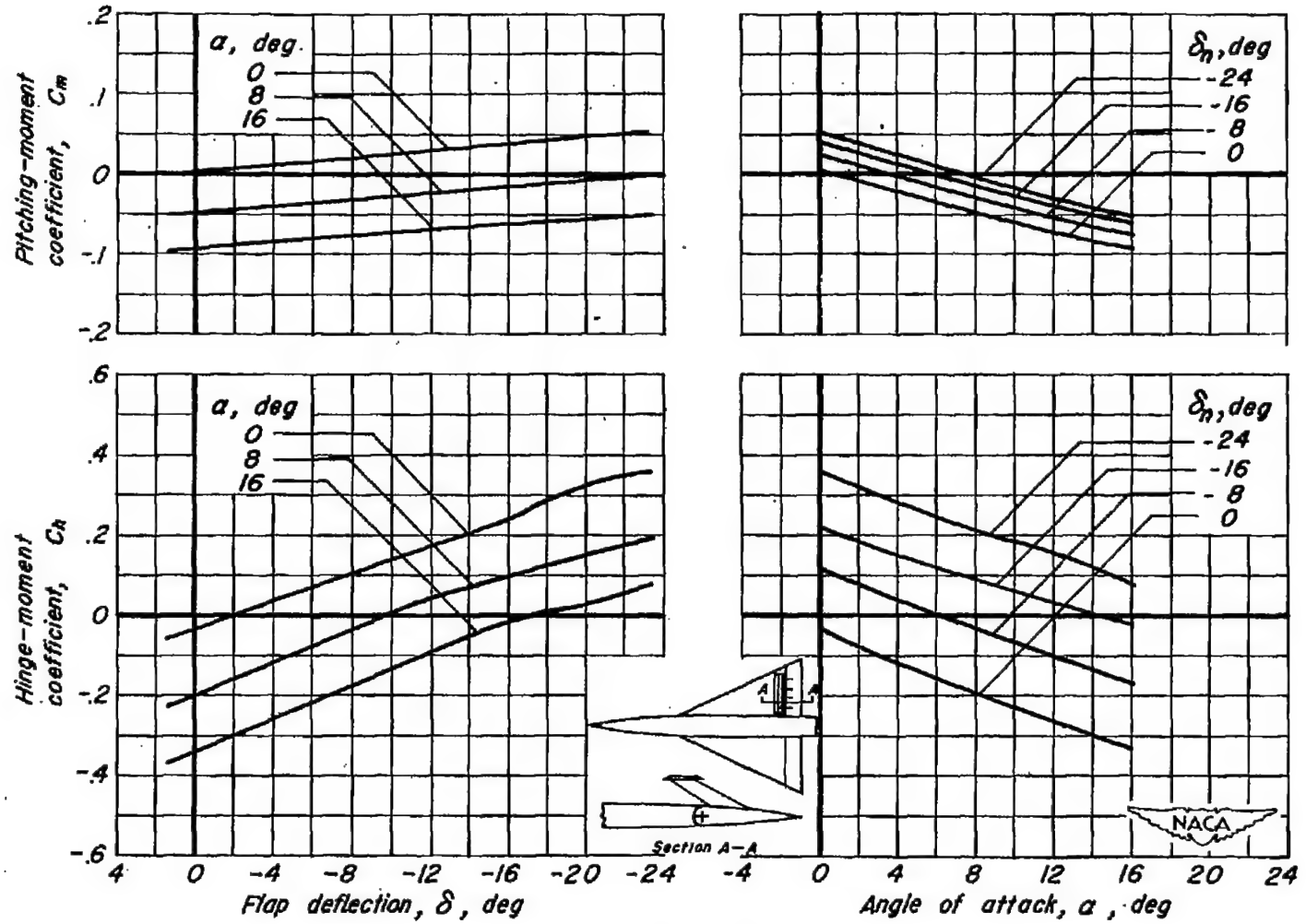
(a) M = 0.6

Figure 9.– The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 67-percent-span paddle balance on the upper surface of the flap forward of the hinge line. Data for one flap. R = 4.4 x 10⁶.



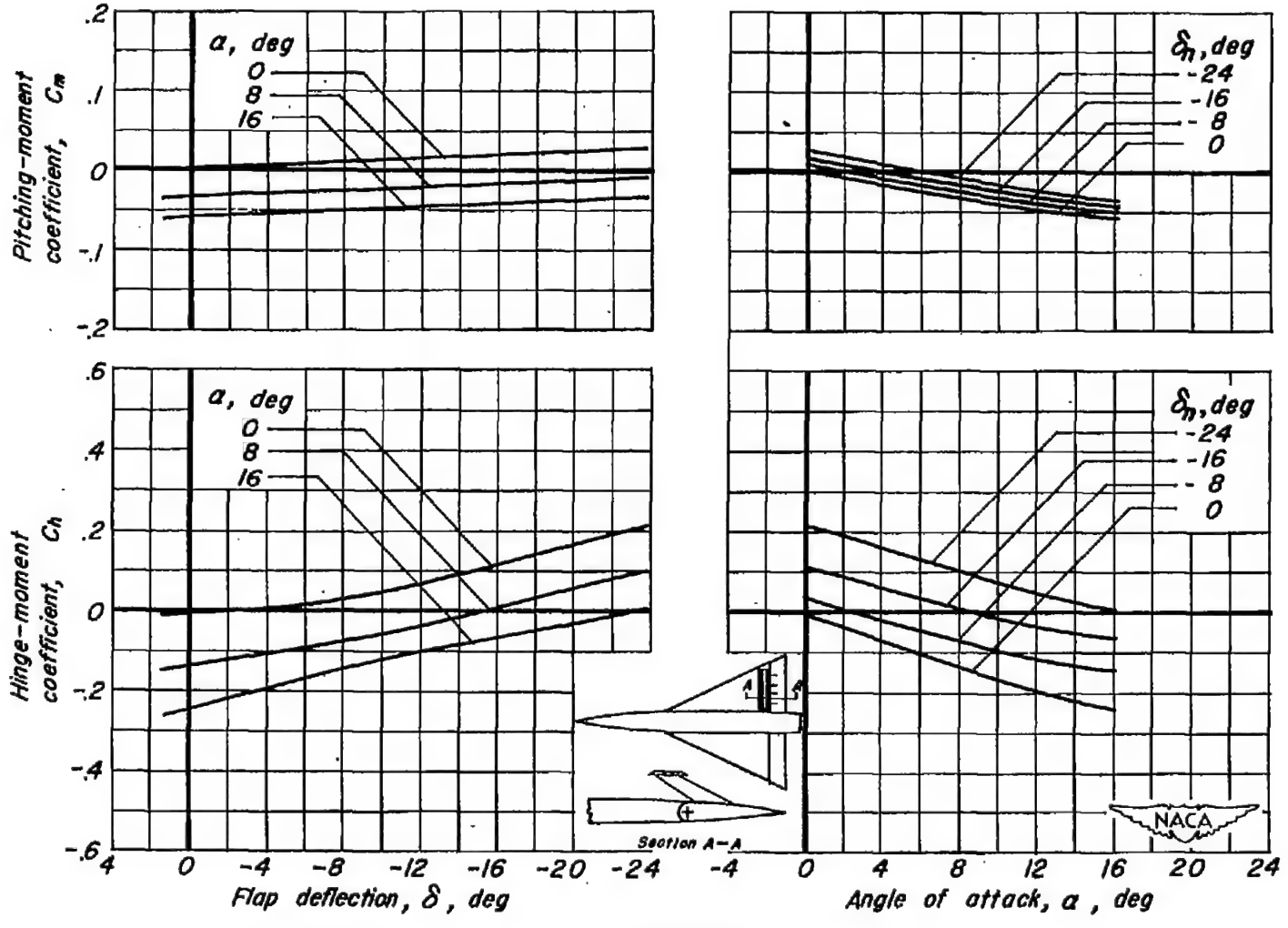
(b) M = 0.9

Figure 9.- Continued.



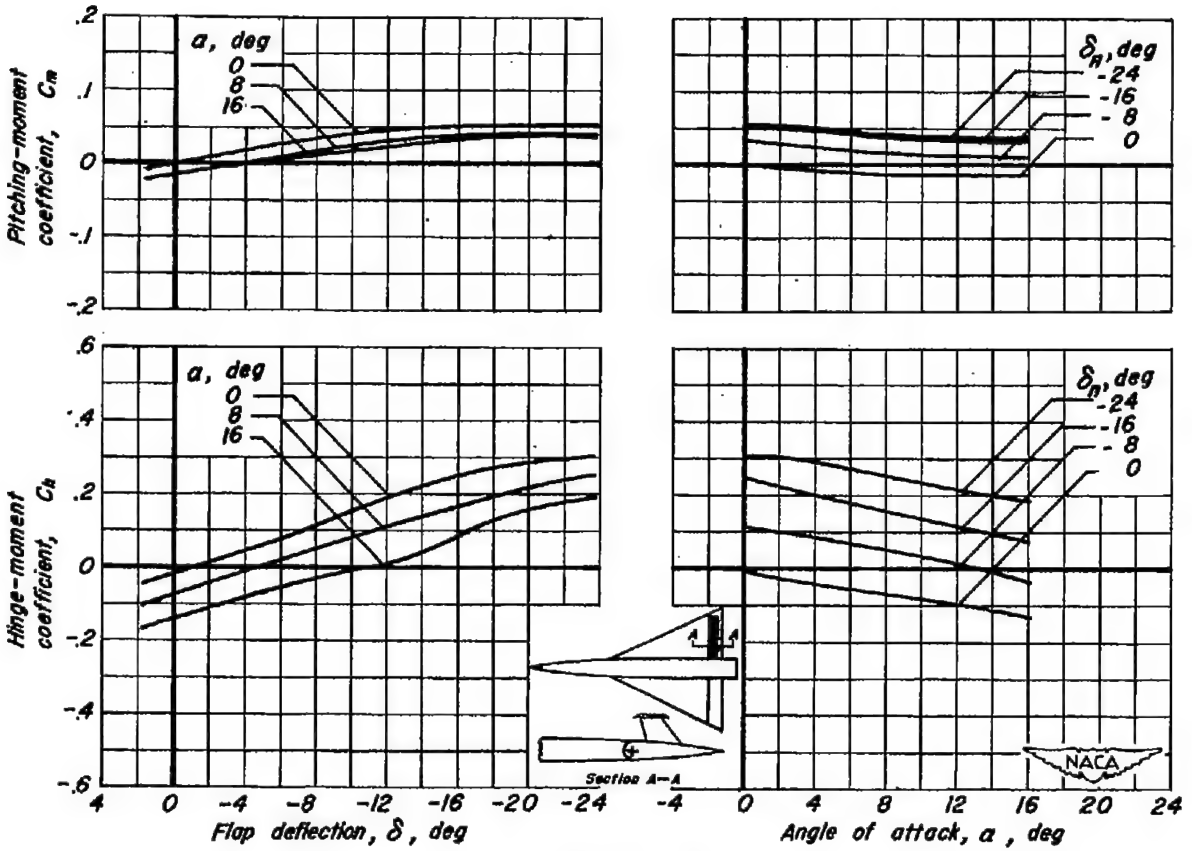
(c) M=1.3

Figure 9.—Continued.



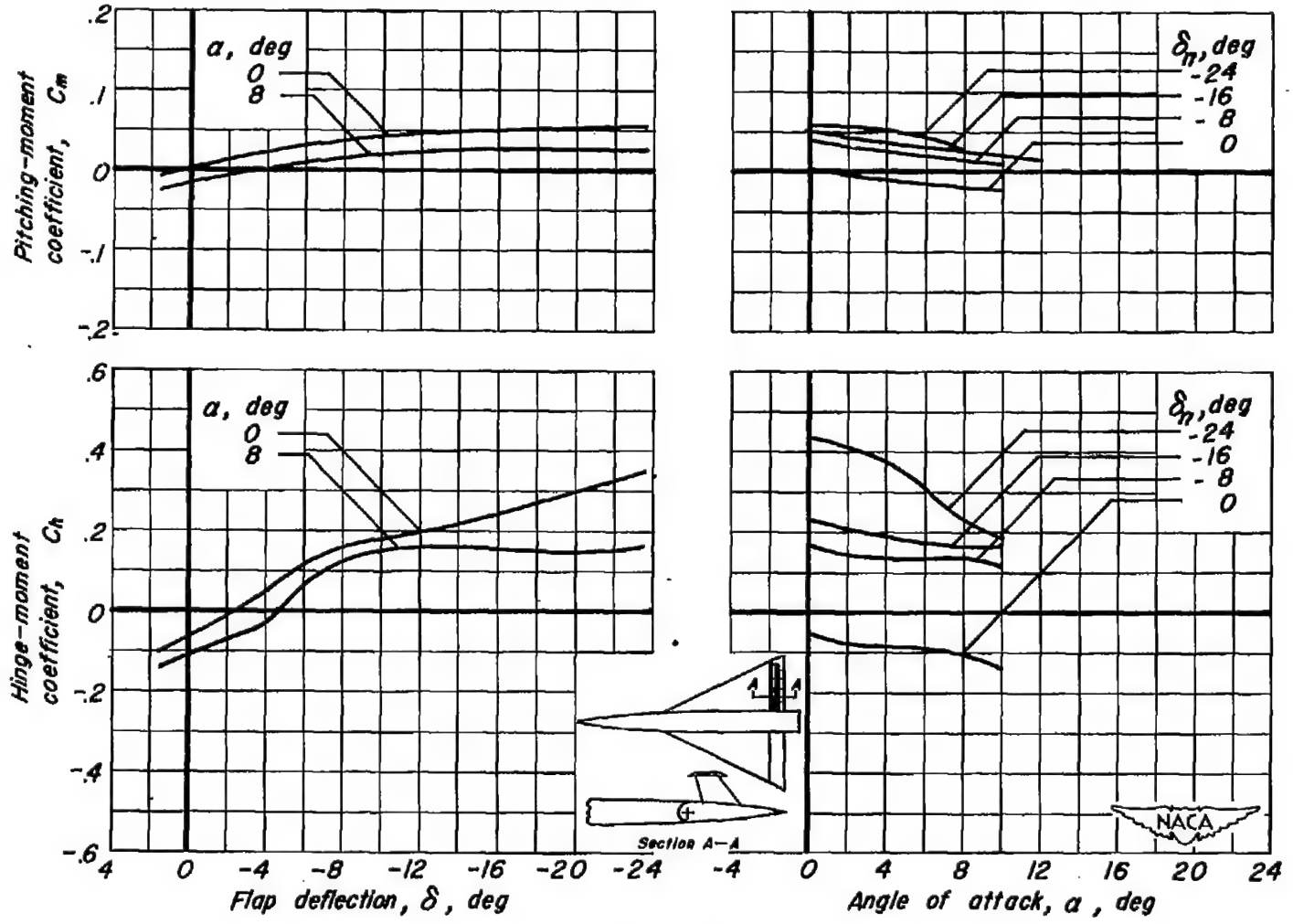
(d) M = 1.9

Figure 9. – Concluded.



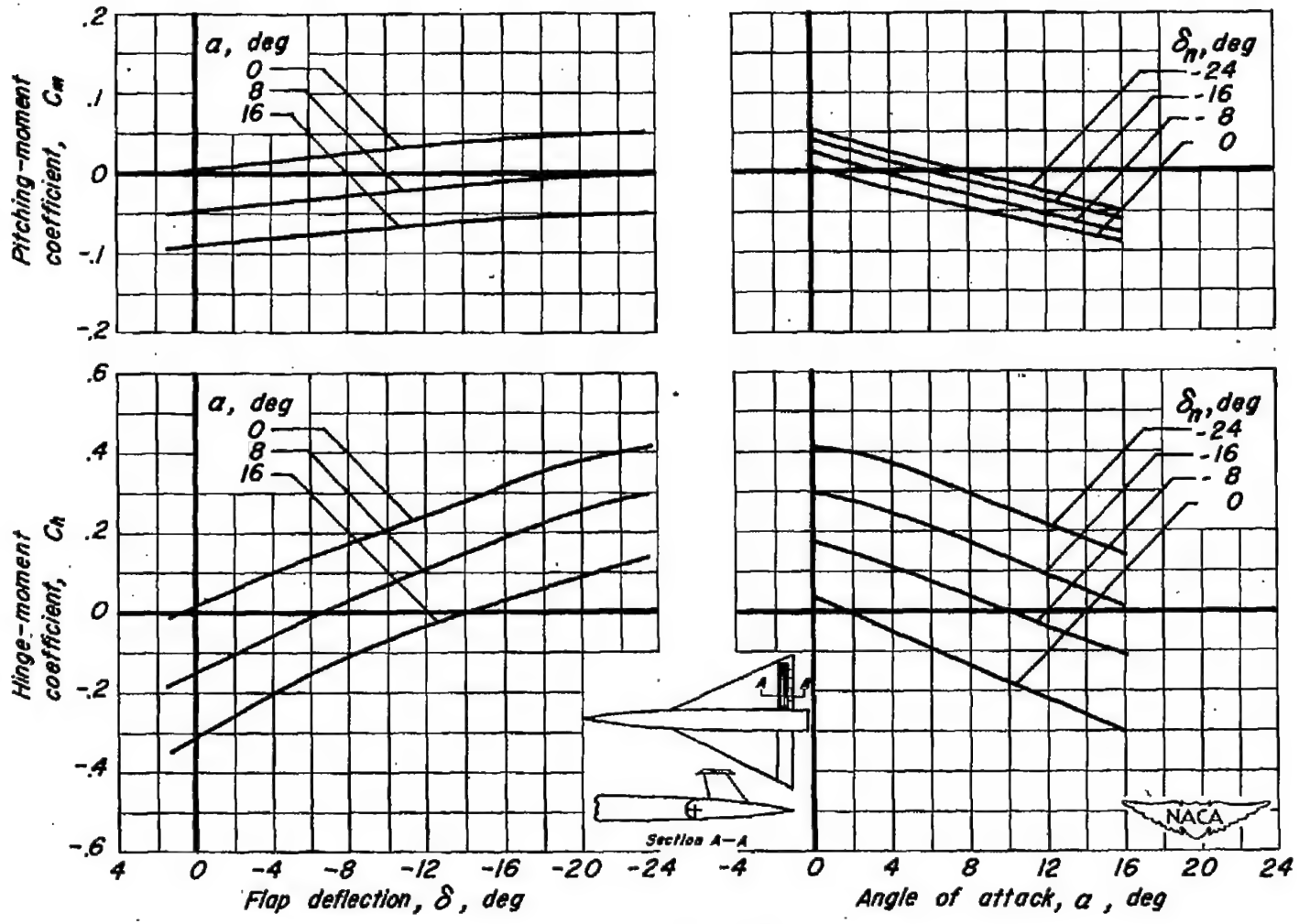
(a) M = 0.6

Figure 10. – The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 67-percent-span paddle balance on the upper surface of the flap aft of the hinge line. Data for one flap. R = 4.4 x 10⁶.



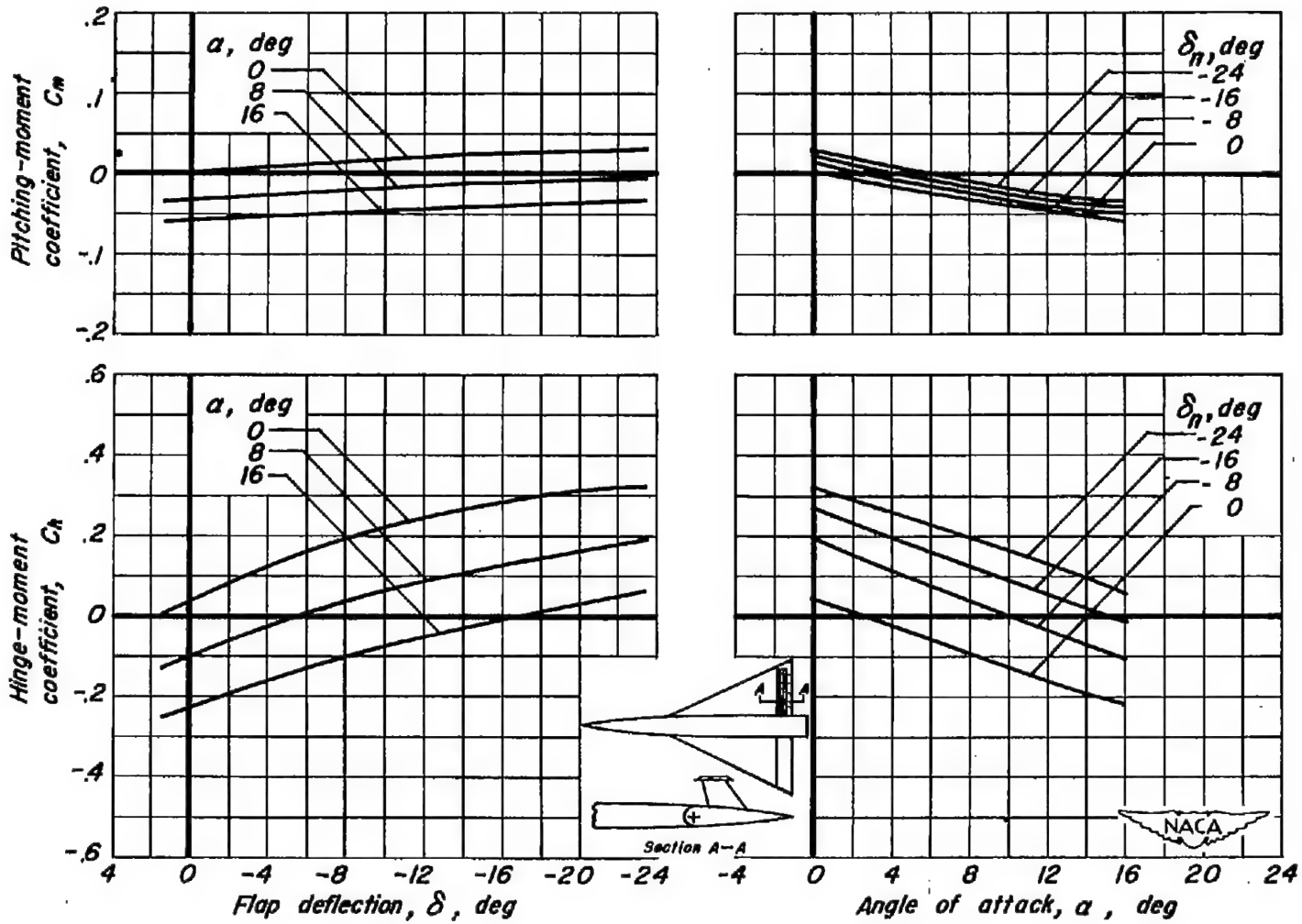
(b) M = 0.9

Figure 10.–Continued.



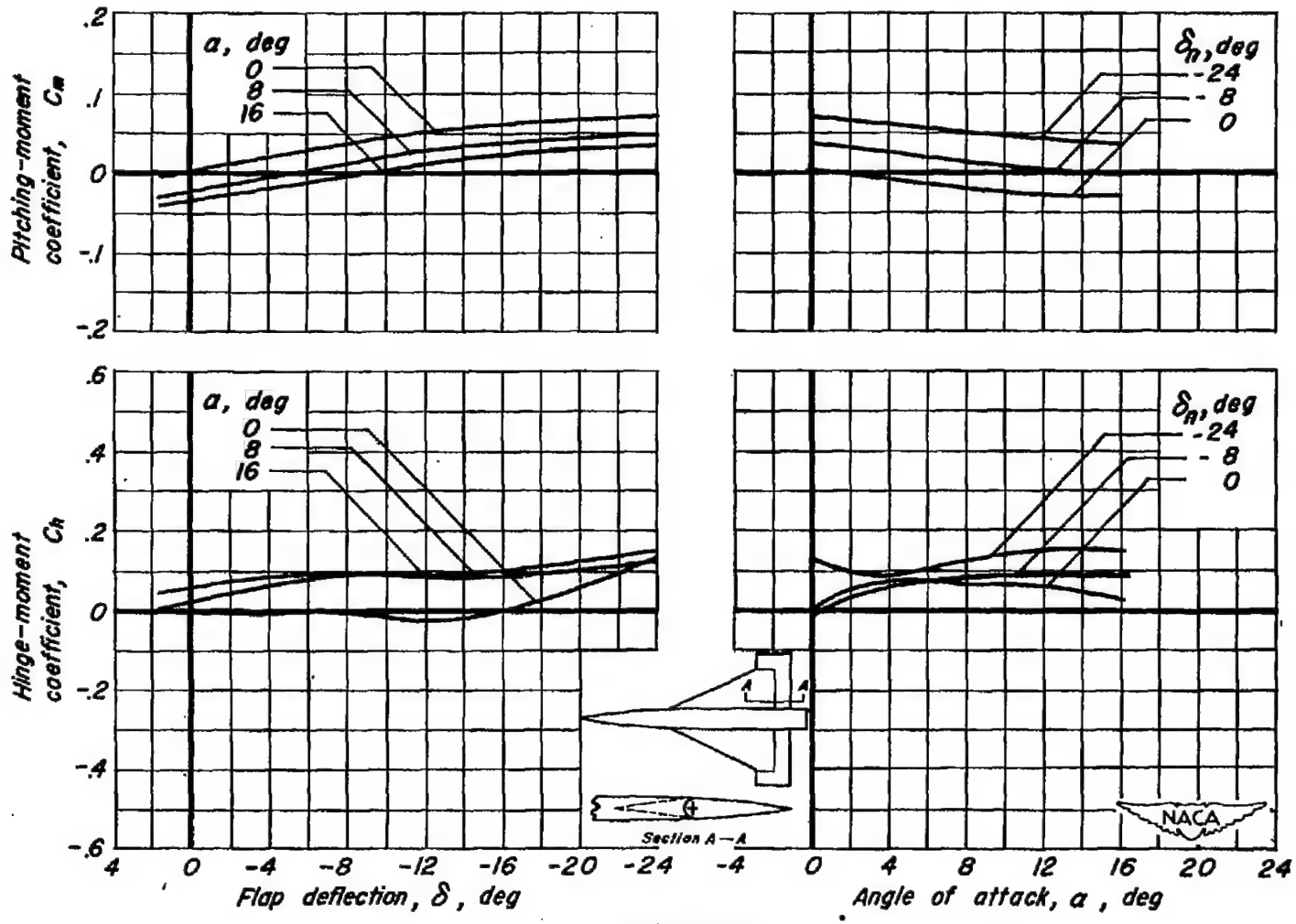
(c) M = 1.3

Figure 10. – Continued.



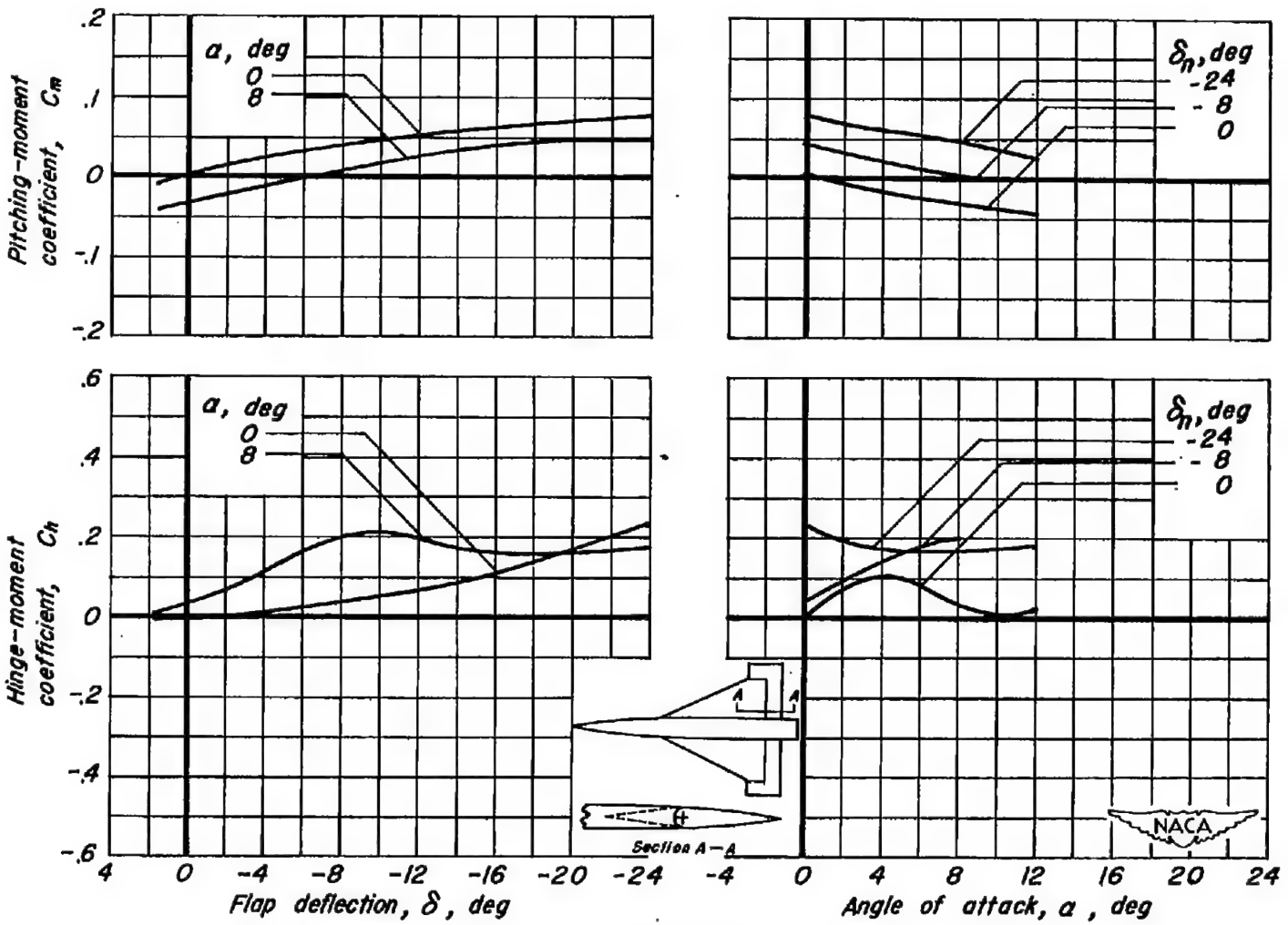
(d) M = 1.9

Figure 10.-Concluded.



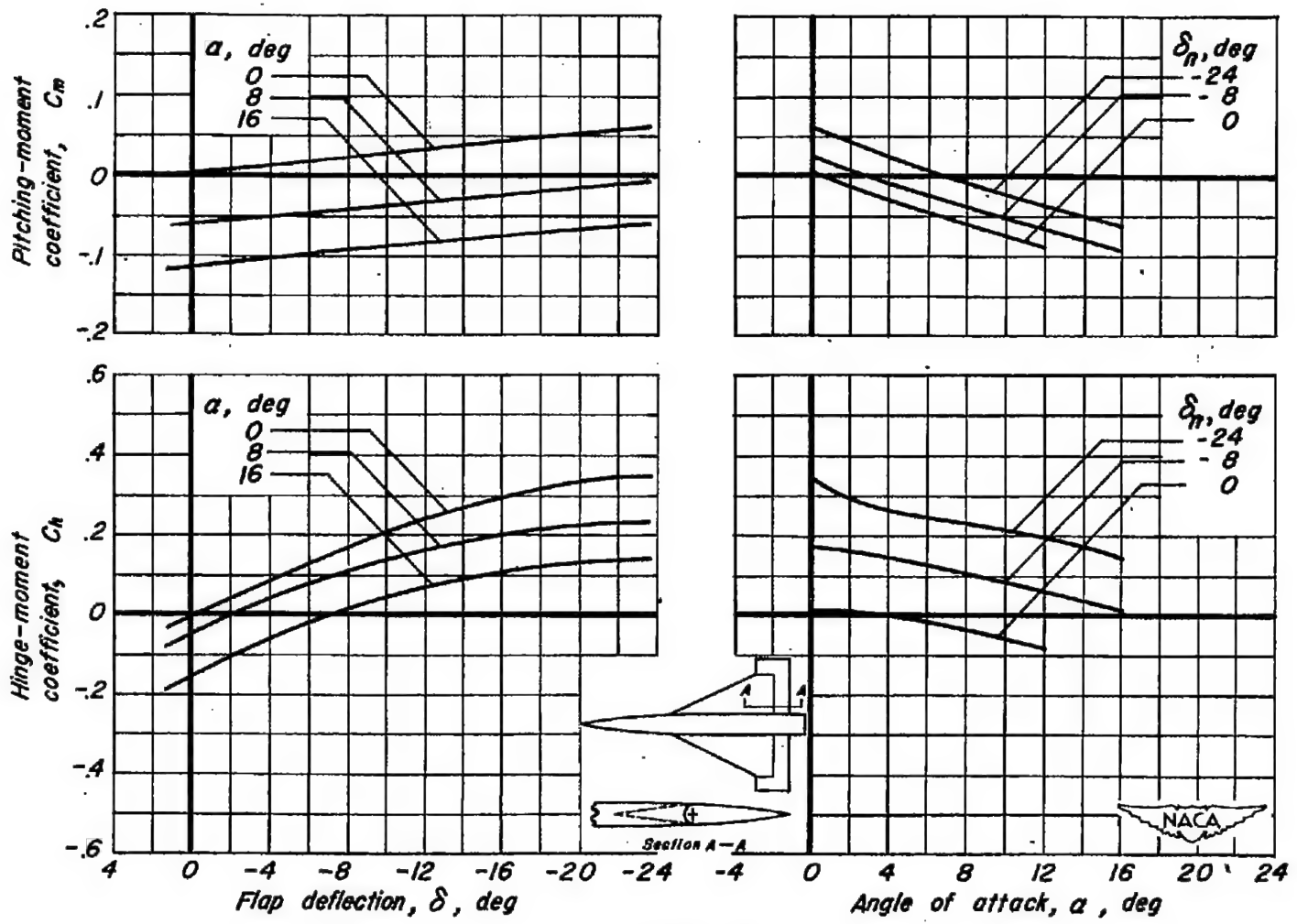
(a) M = 0.6

Figure 11.— The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 20.3-percent-area rectangular horn balance flap. Data for one flap. $R = 4.4 \times 10^6$.



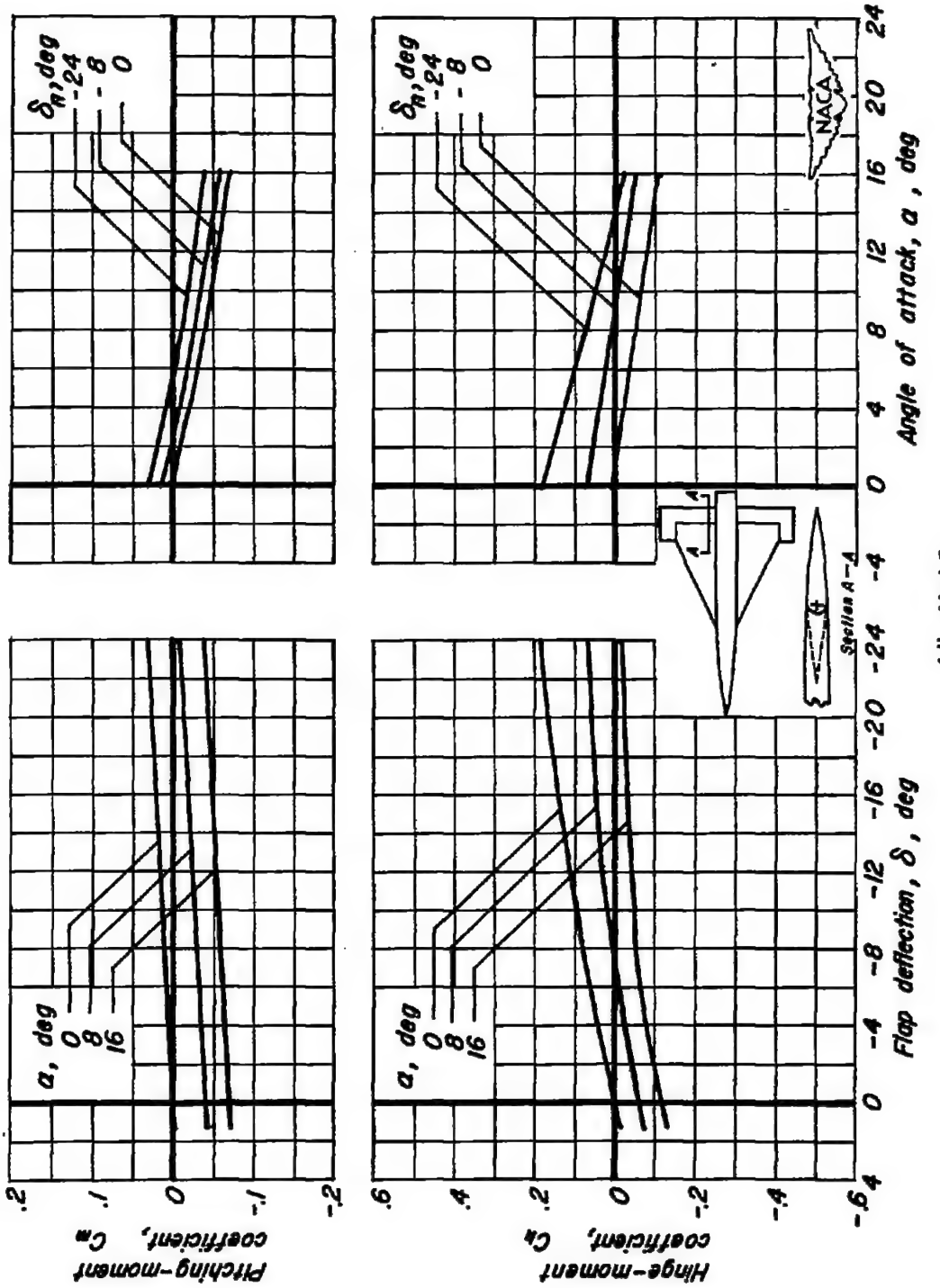
(b) M = 0.9

Figure 11.—Continued.



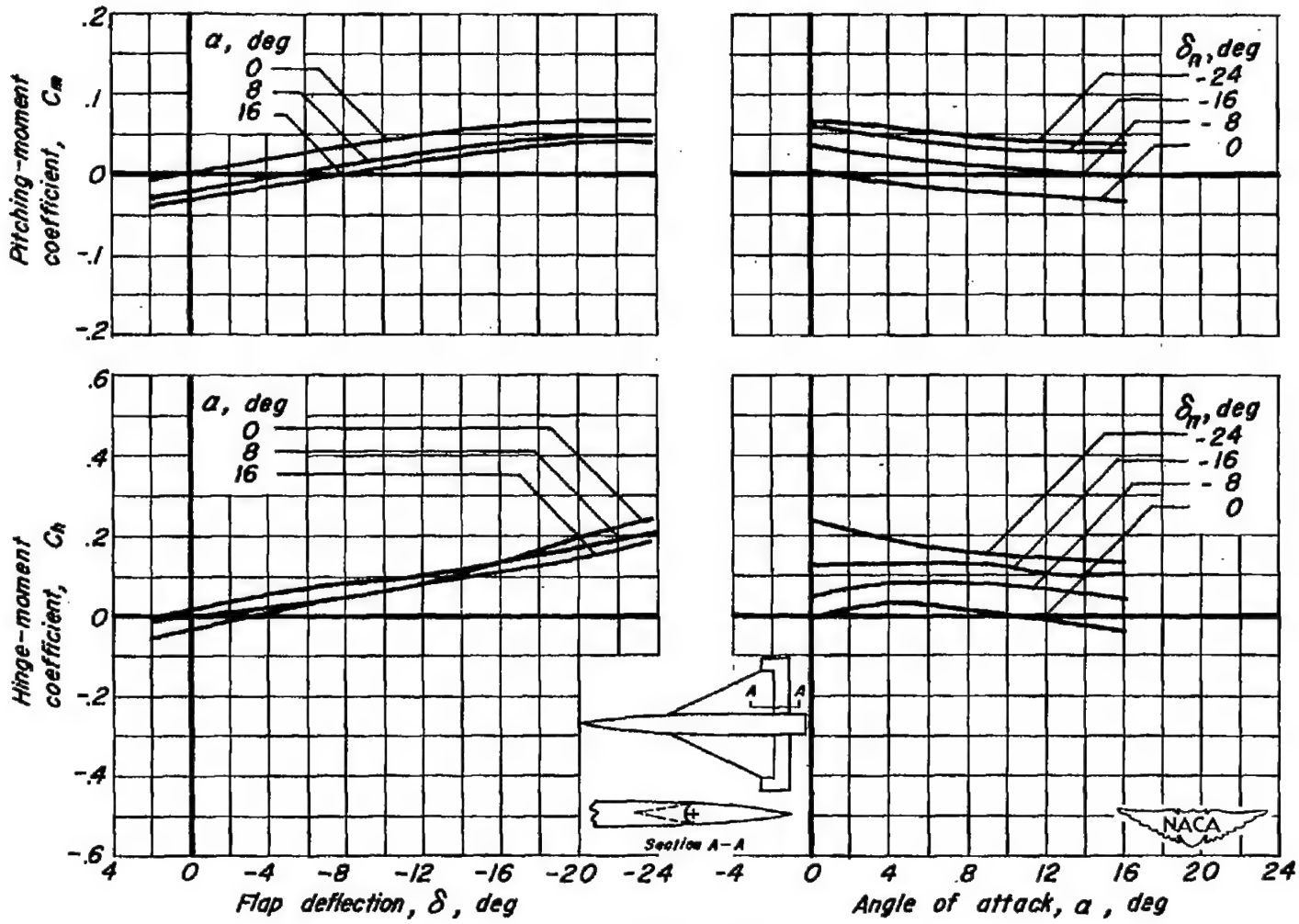
(c) M = 1.3

Figure 11.- Continued.



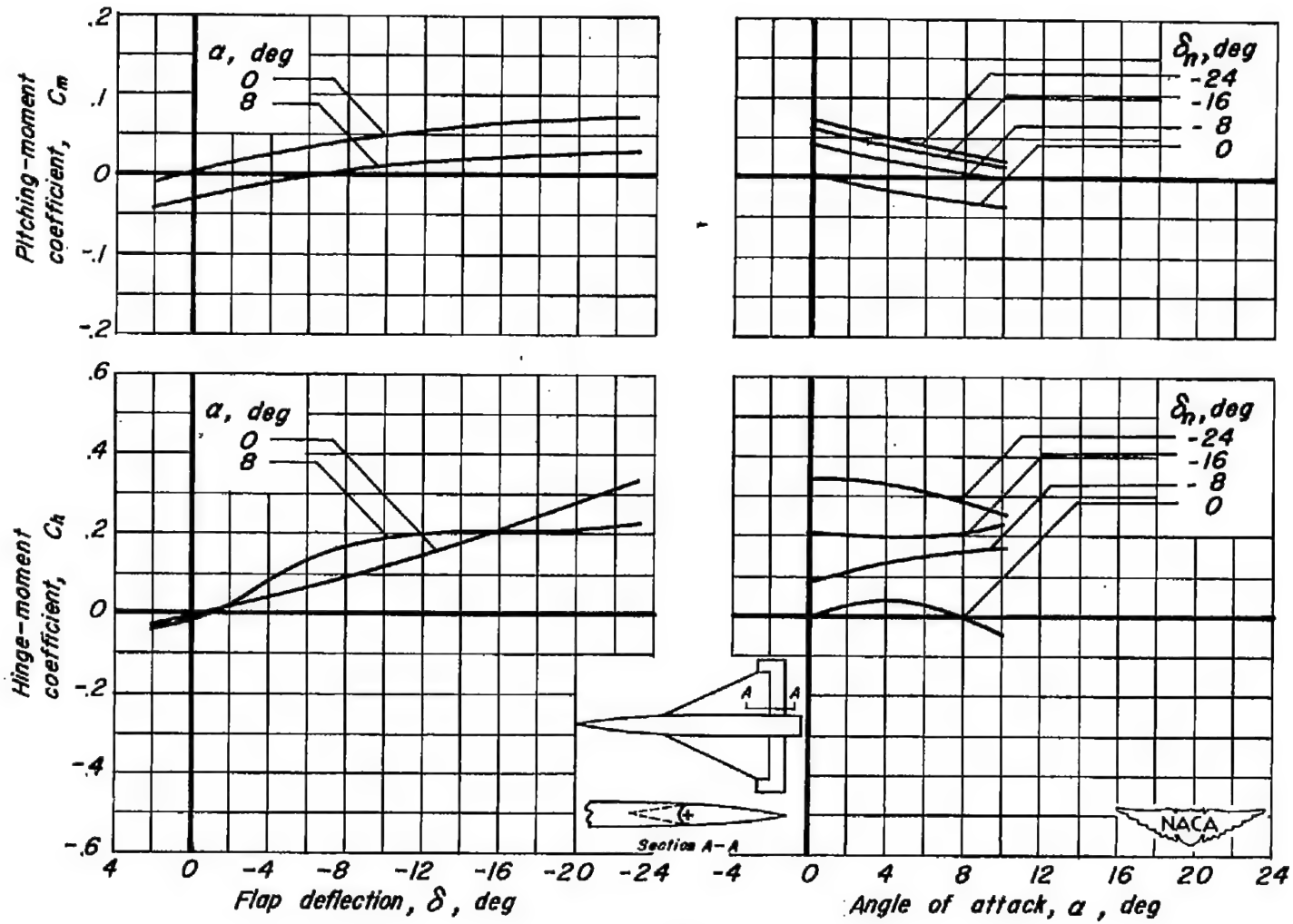
(d) M=1.9

Figure 11.- Concluded.



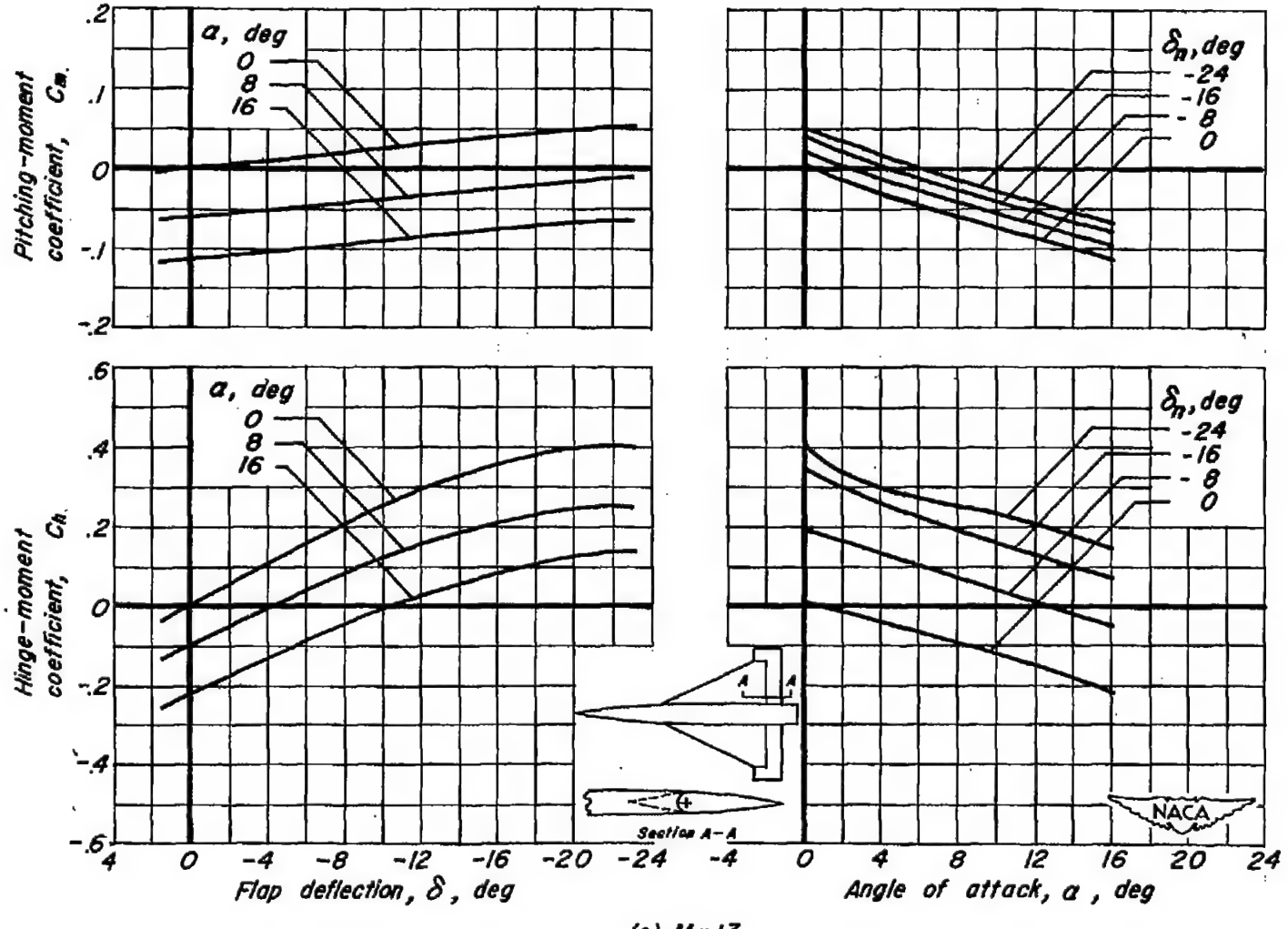
(a) M = 0.6

Figure 12. - The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 13.1-percent-area rectangular horn balance flap. Data for one flap. R = 4.4 x 10⁶.



(b) M = 0.9

Figure 12. - Continued.



(c) $M = 1.3$

Figure 12. - Continued.

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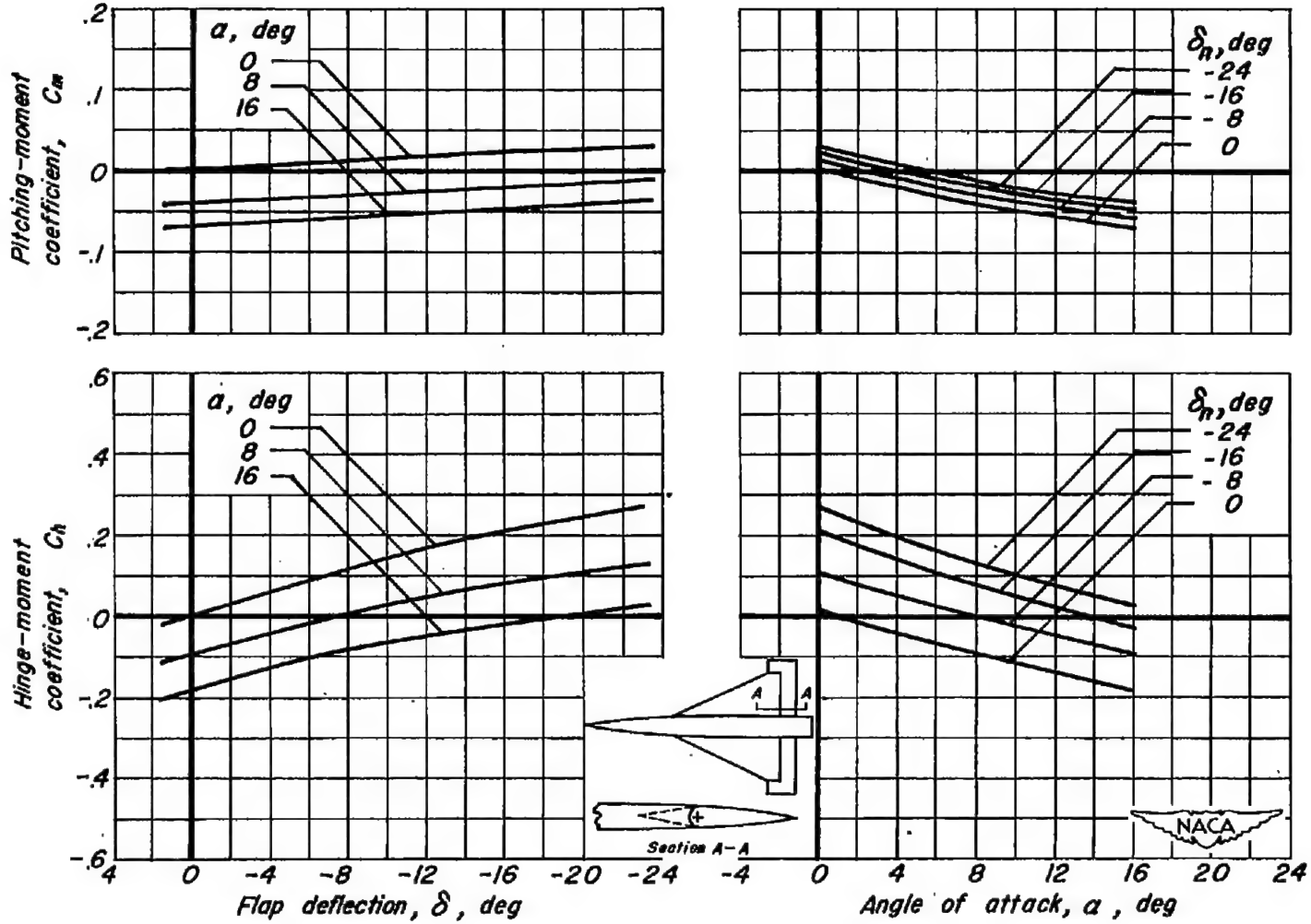
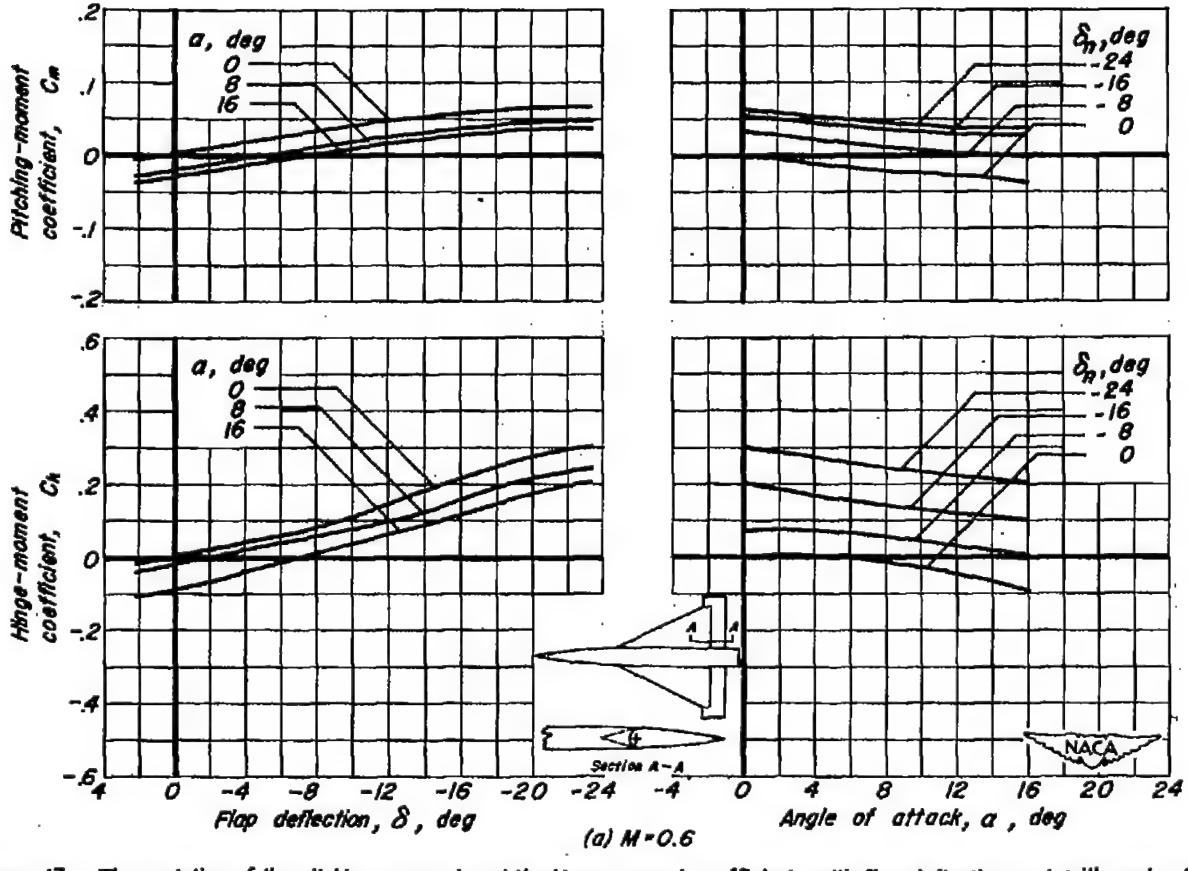


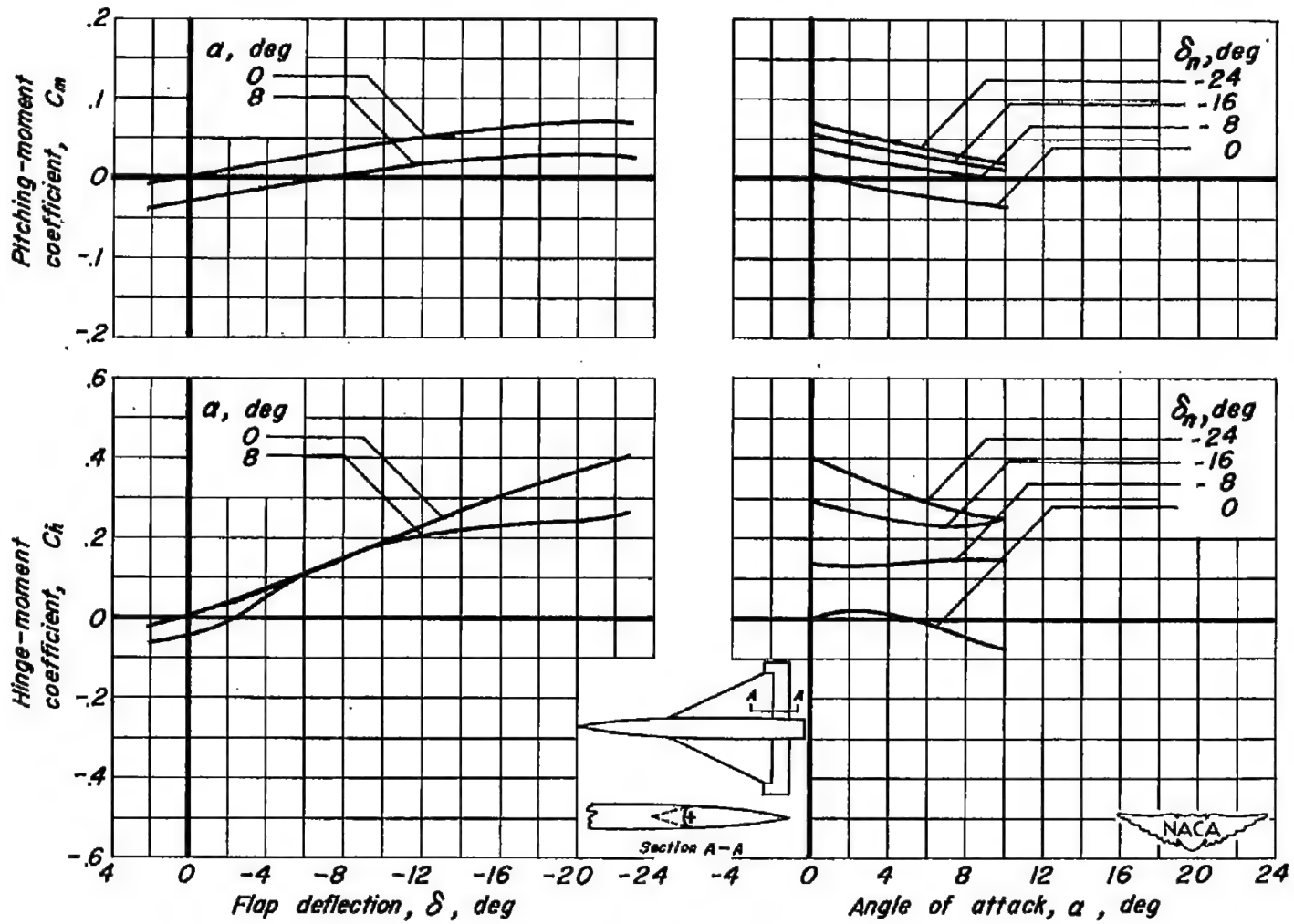
(d) M=1.9

Figure 12.- Concluded.



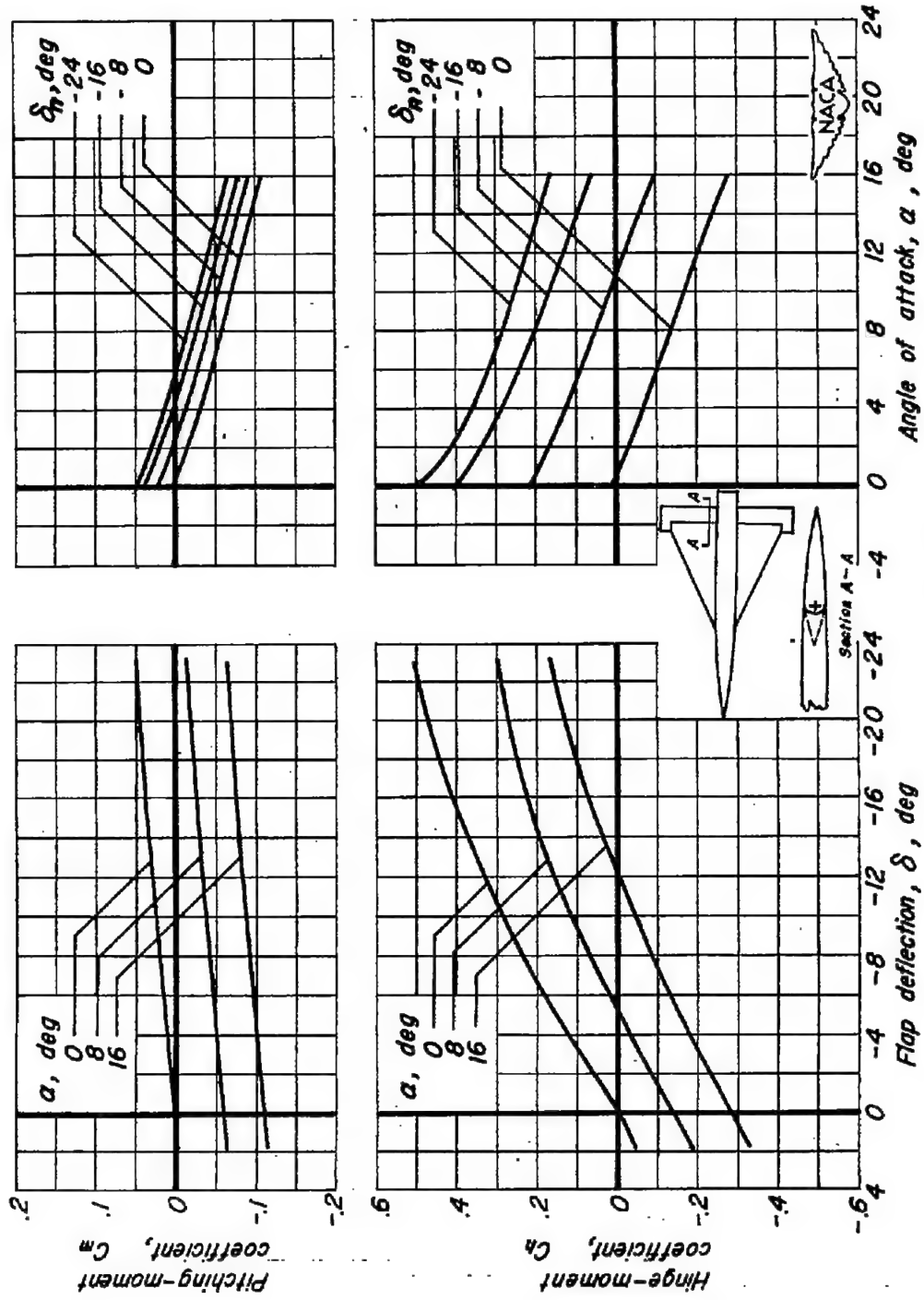
(a) M = 0.6

Figure 13.– The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 6.4-percent-area rectangular horn balance flap. Data for one flap. $R = 4.4 \times 10^6$



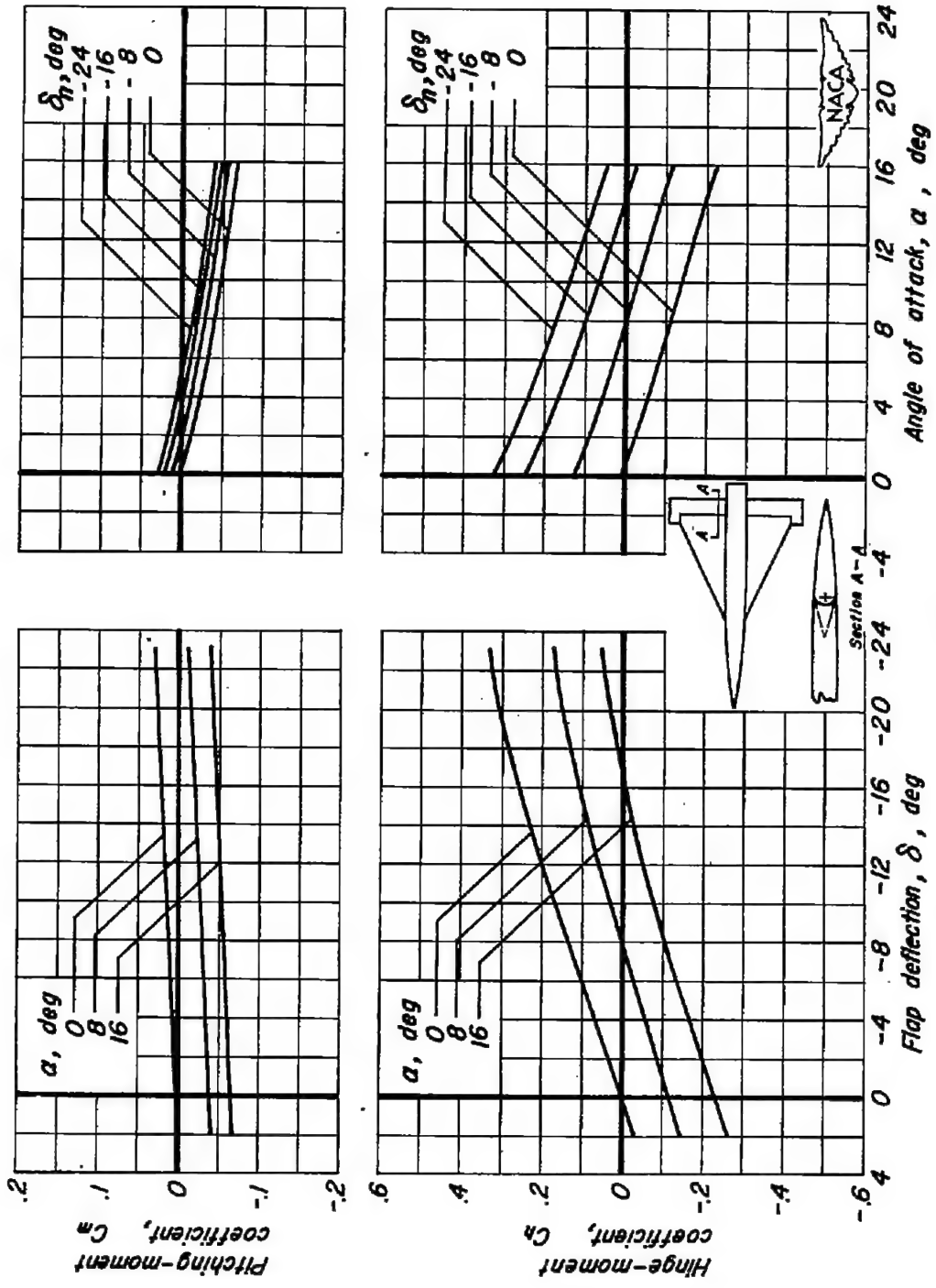
(b) M = 0.9

Figure 13.—Continued.



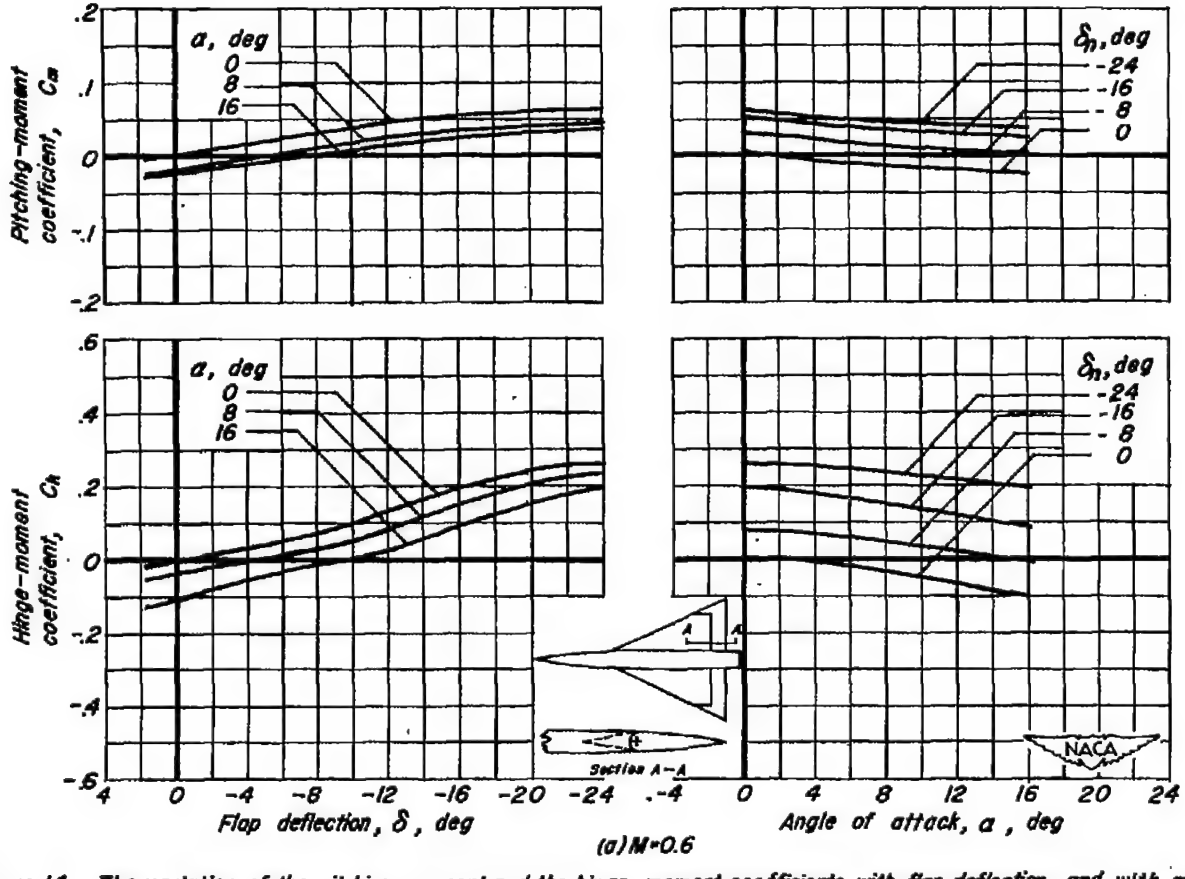
(c) M = 1.3

Figure 13.—Continued.



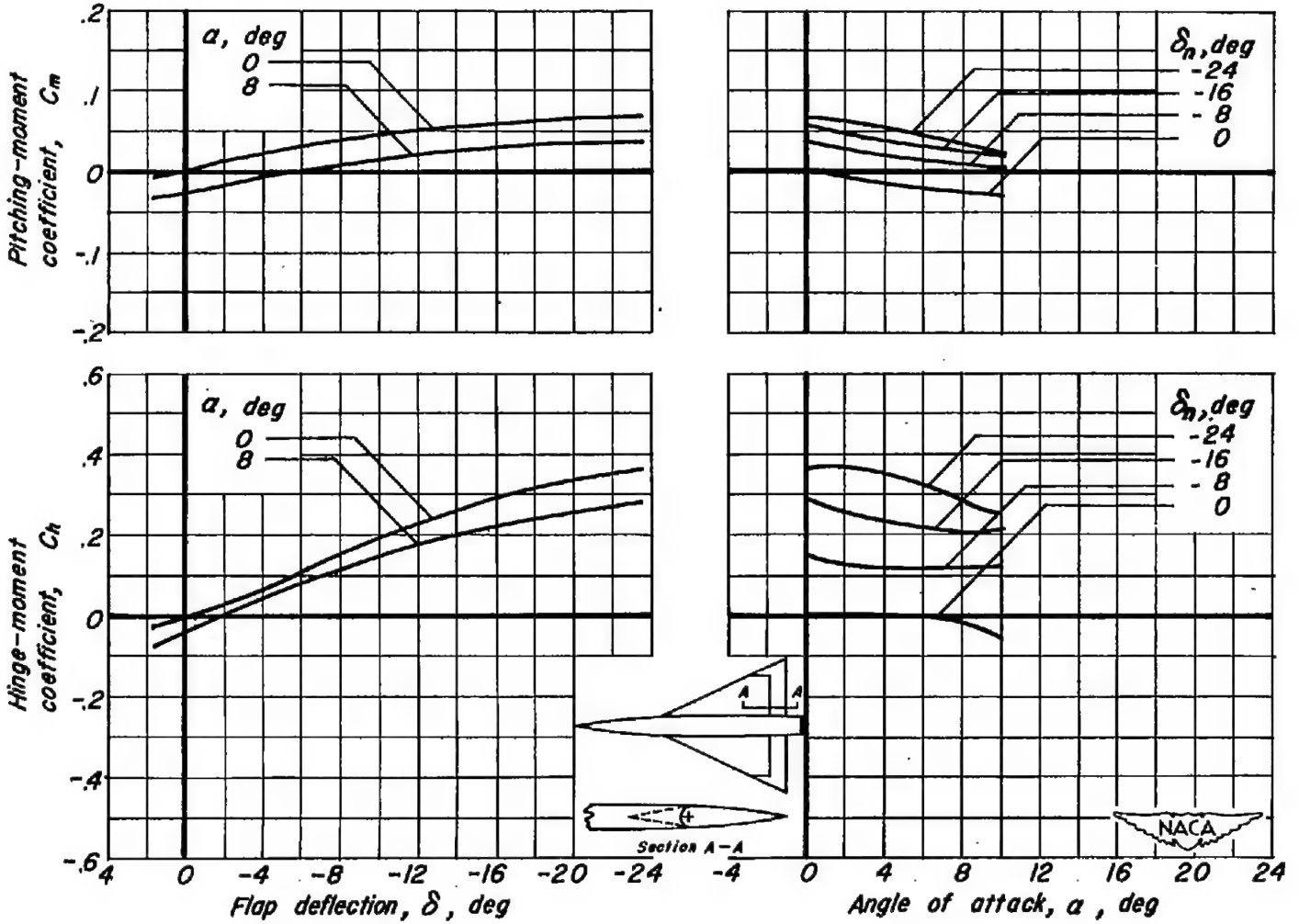
(d) M = 1.9

Figure 13.—Concluded.



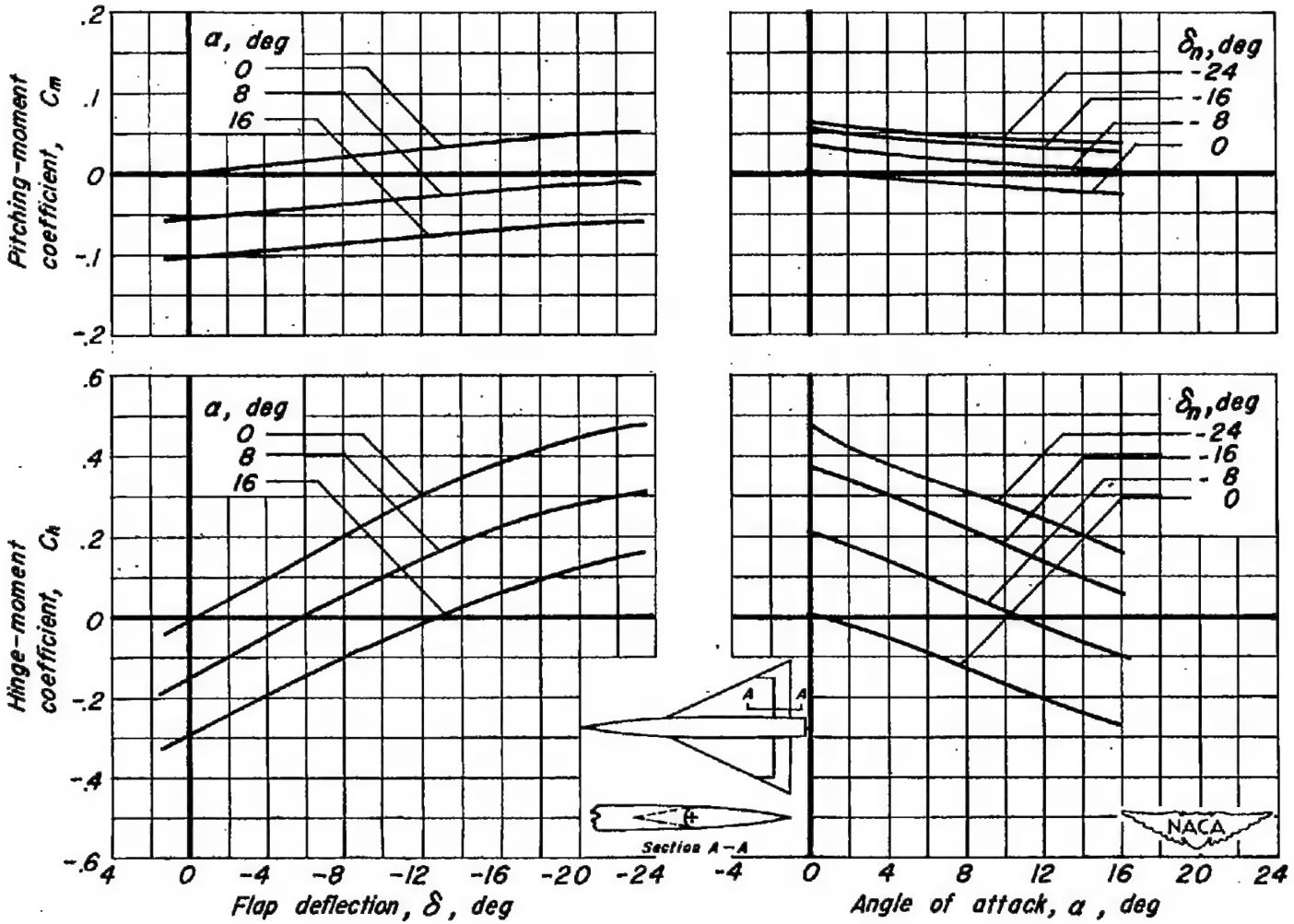
(a) M=0.6

Figure 14.- The variation of the pitching-moment and the hinge-moment coefficients with flap deflection and with angle of attack for the 5.5-percent-area triangular horn balance flap. Data for one flap. R=4.4 x 10⁶



(b) M=0.9

Figure 14.—Continued.



(c) M = 1.3

Figure 14.– Continued.

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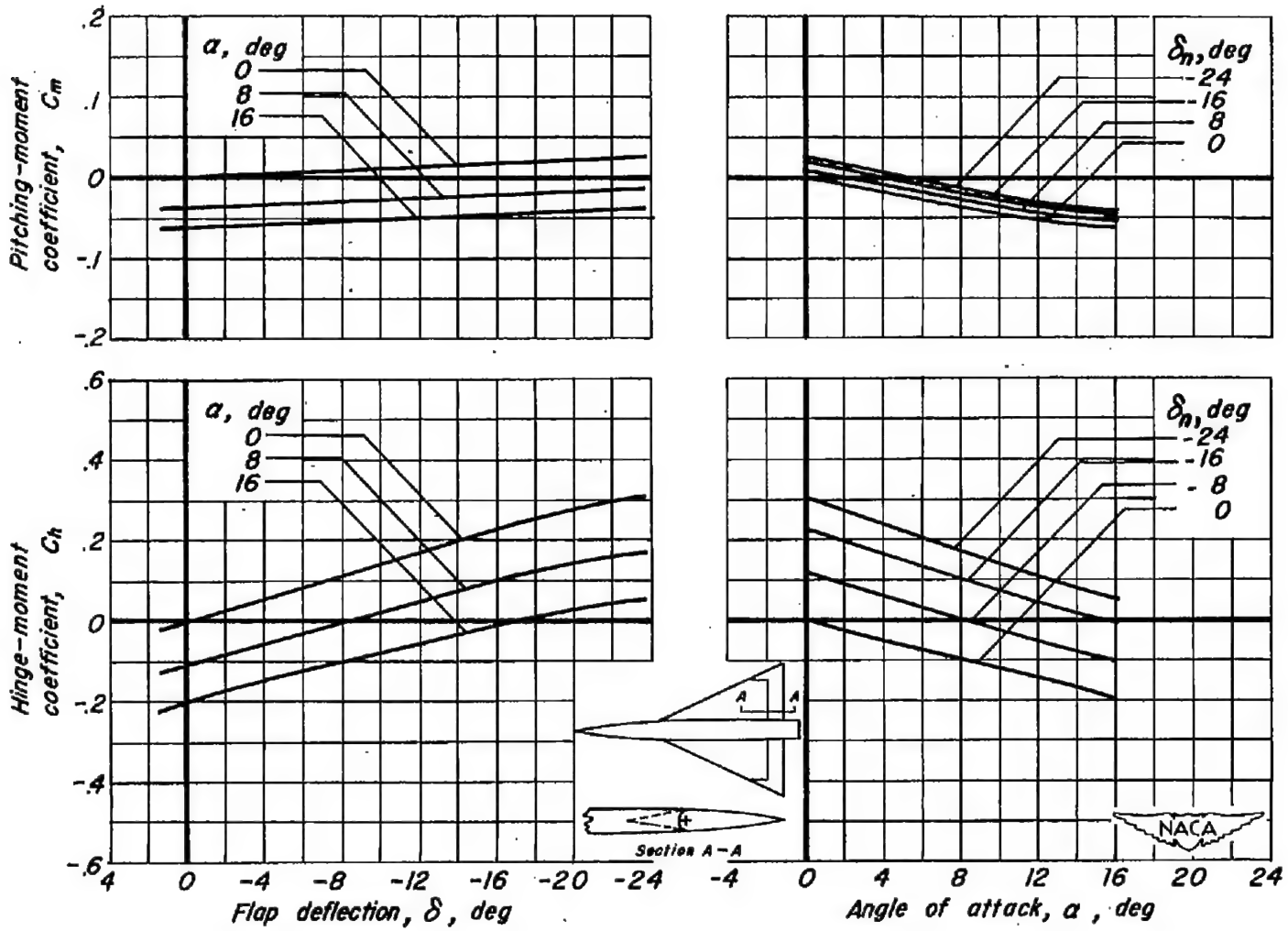
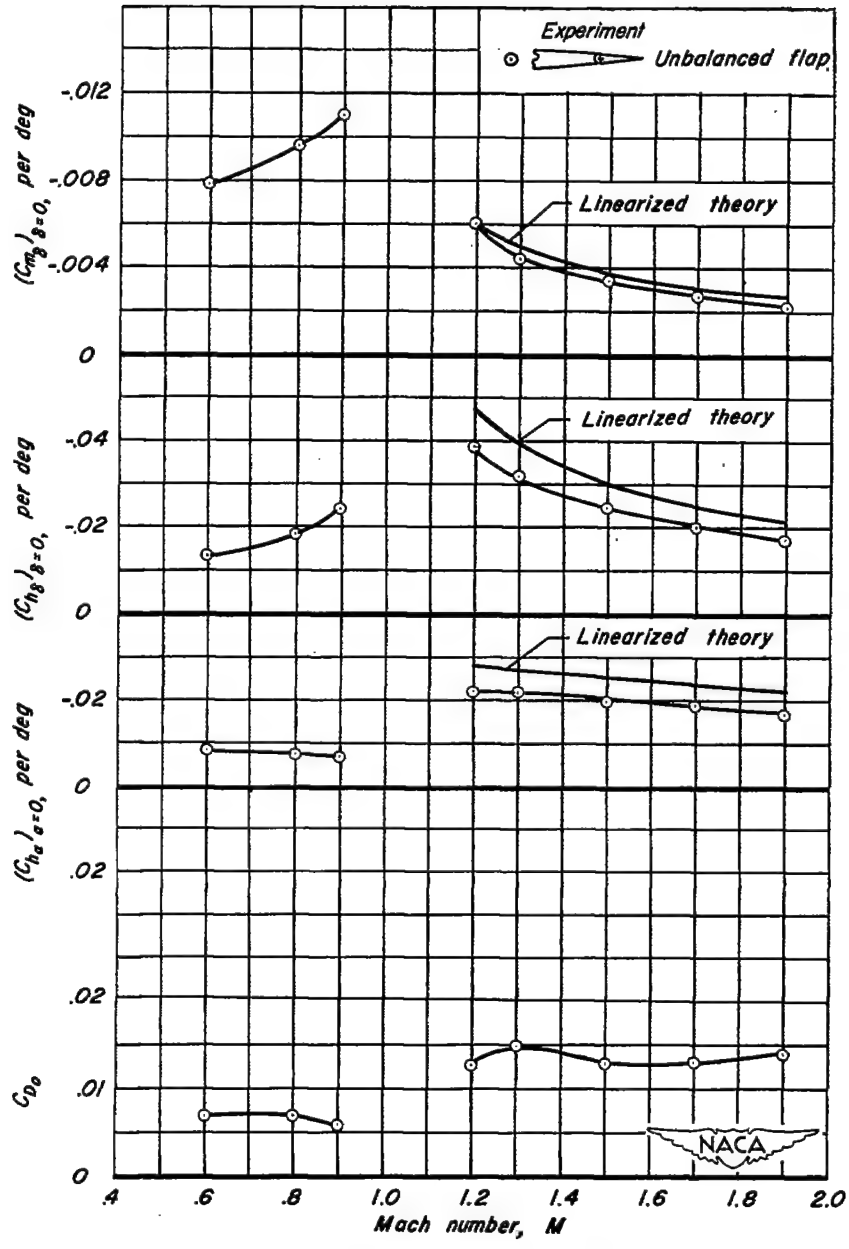


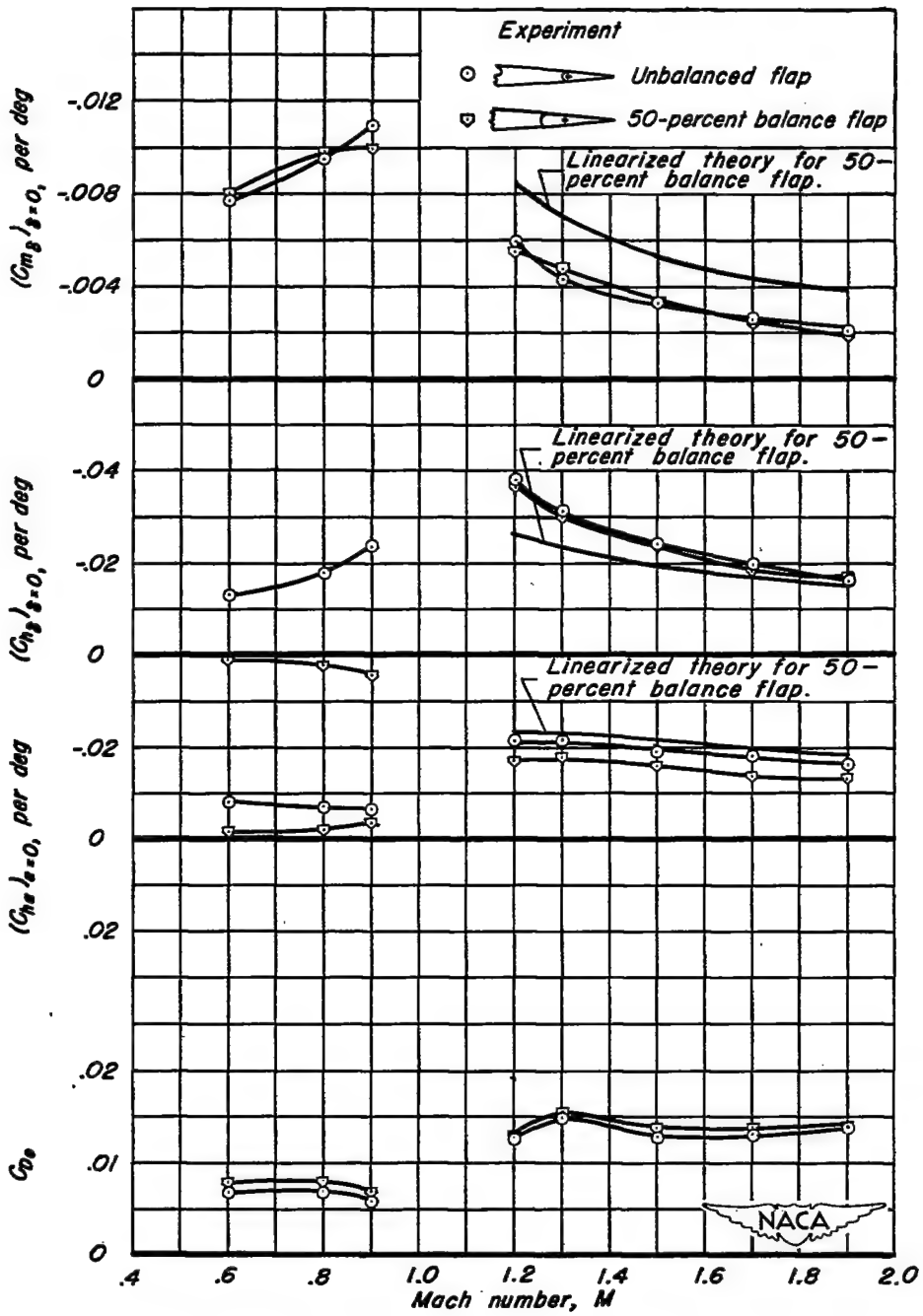
(d) M = 1.9

Figure 14. – Concluded.



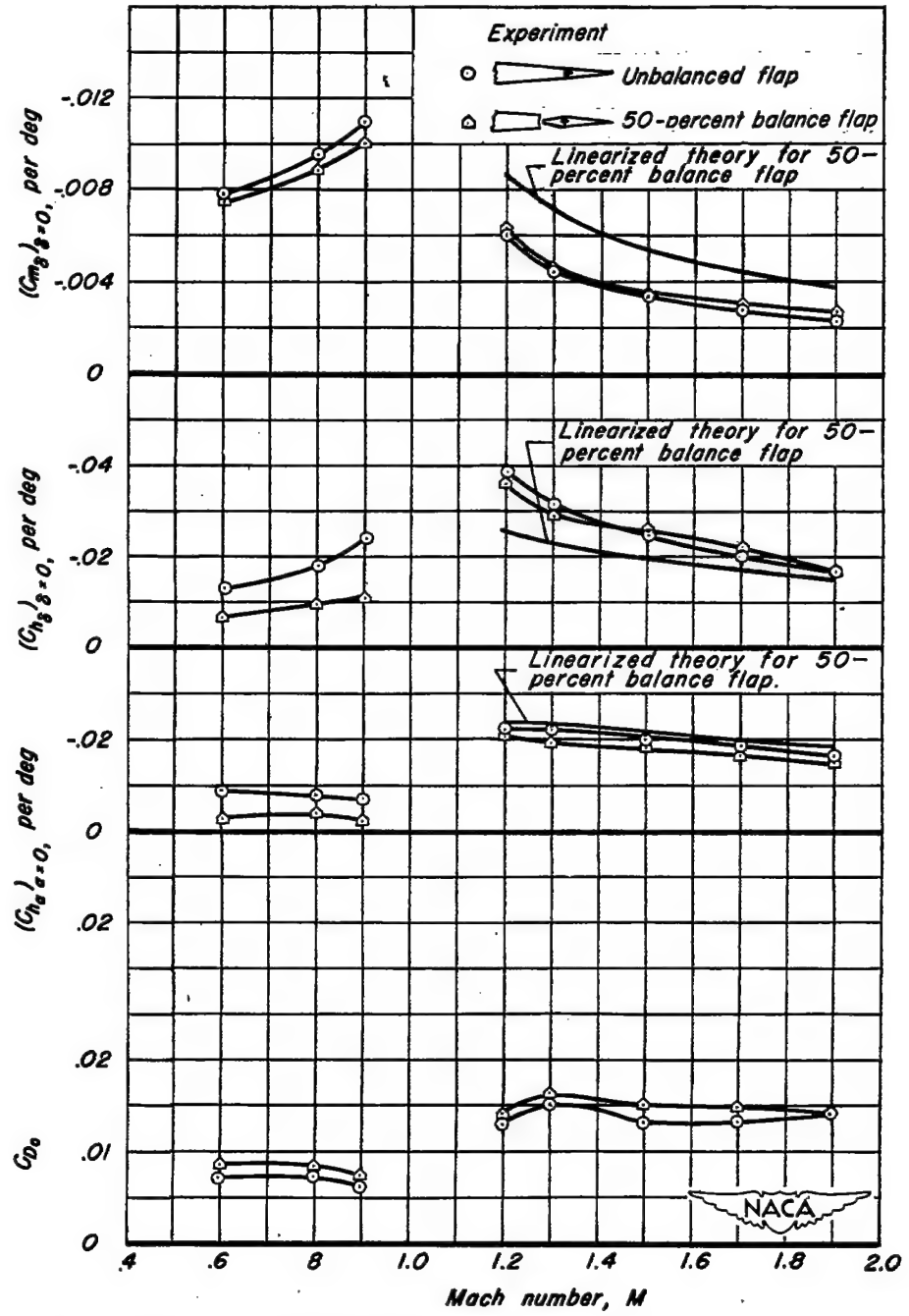
(a) Unbalanced flap.

Figure 15 – Variation with Mach number of the pitching-moment-effectiveness parameter, C_{m_β}, the hinge-moment parameters, C_{h_β}, and C_{h_α}, and the minimum drag coefficient, C_{D_0}, for various flap configurations. Data for two flaps.



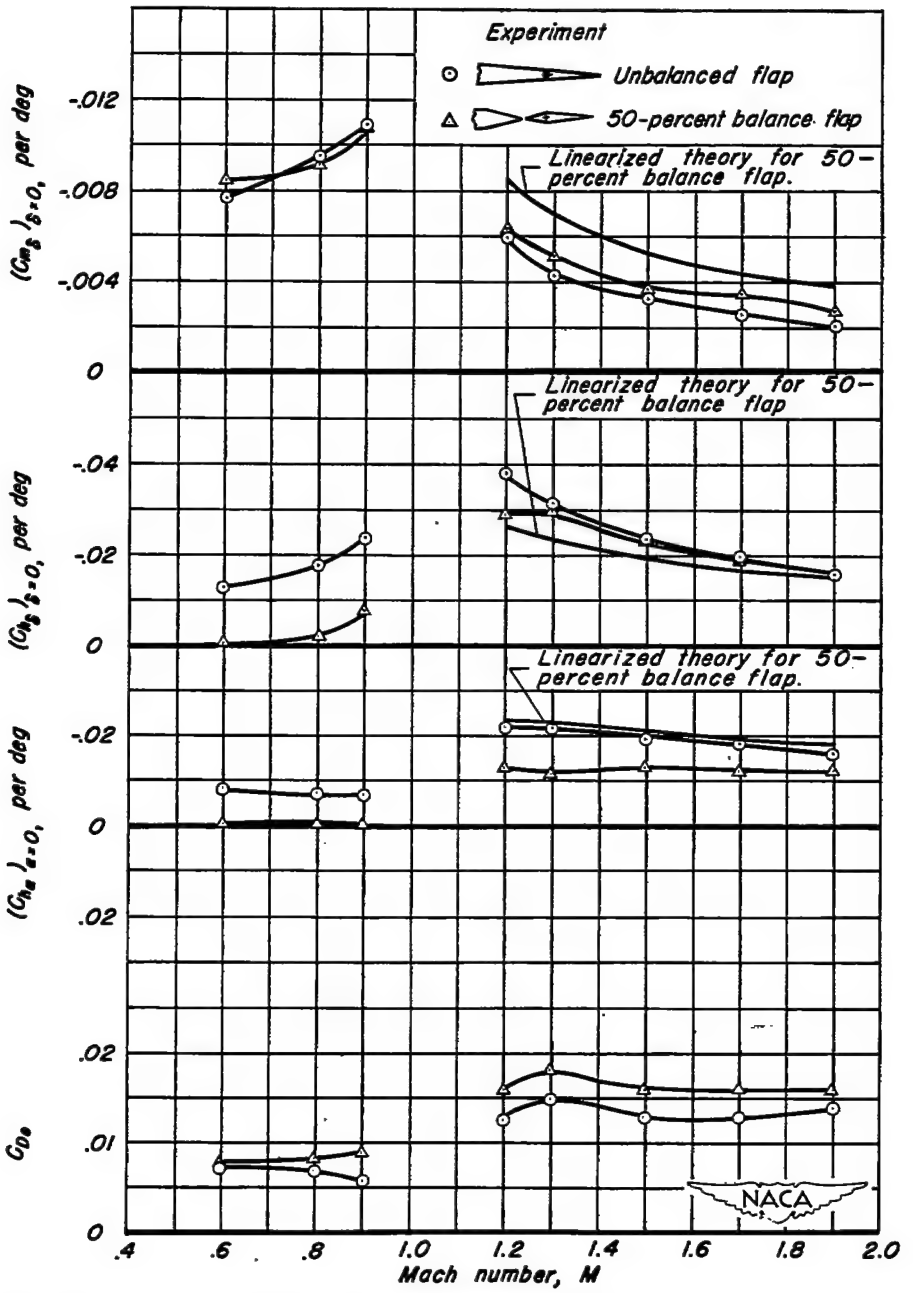
(b) 50-percent balance flap (true-contour wing profile; round nose flap).

Figure 15.- Continued.



(c) 50 — percent balance flap (true-contour wing profile; sharp nose flap).

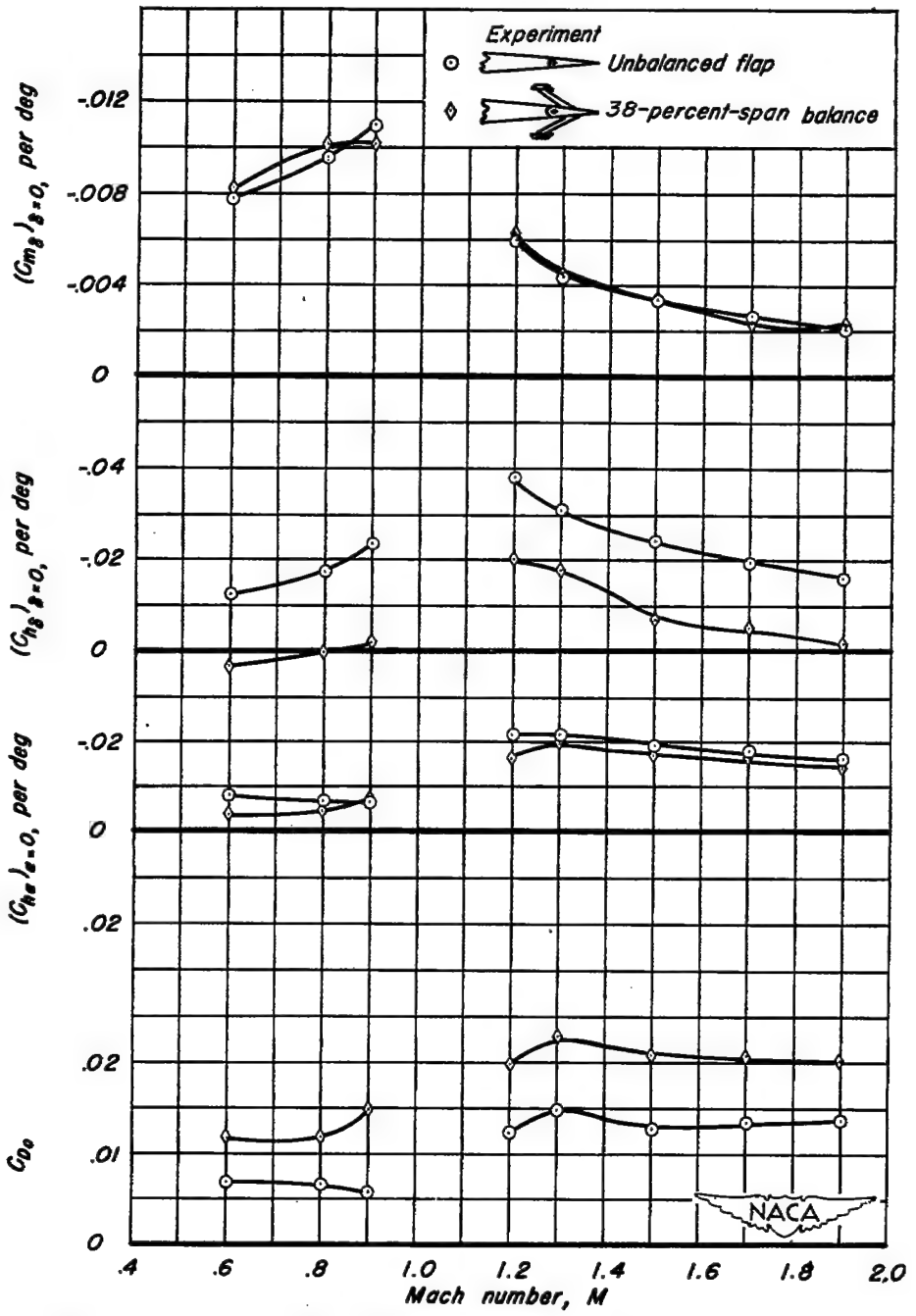
Figure 15.- Continued.



(d) 50 — percent balance flap. (modified wing profile; sharp nose flap).

Figure 15.- Continued.

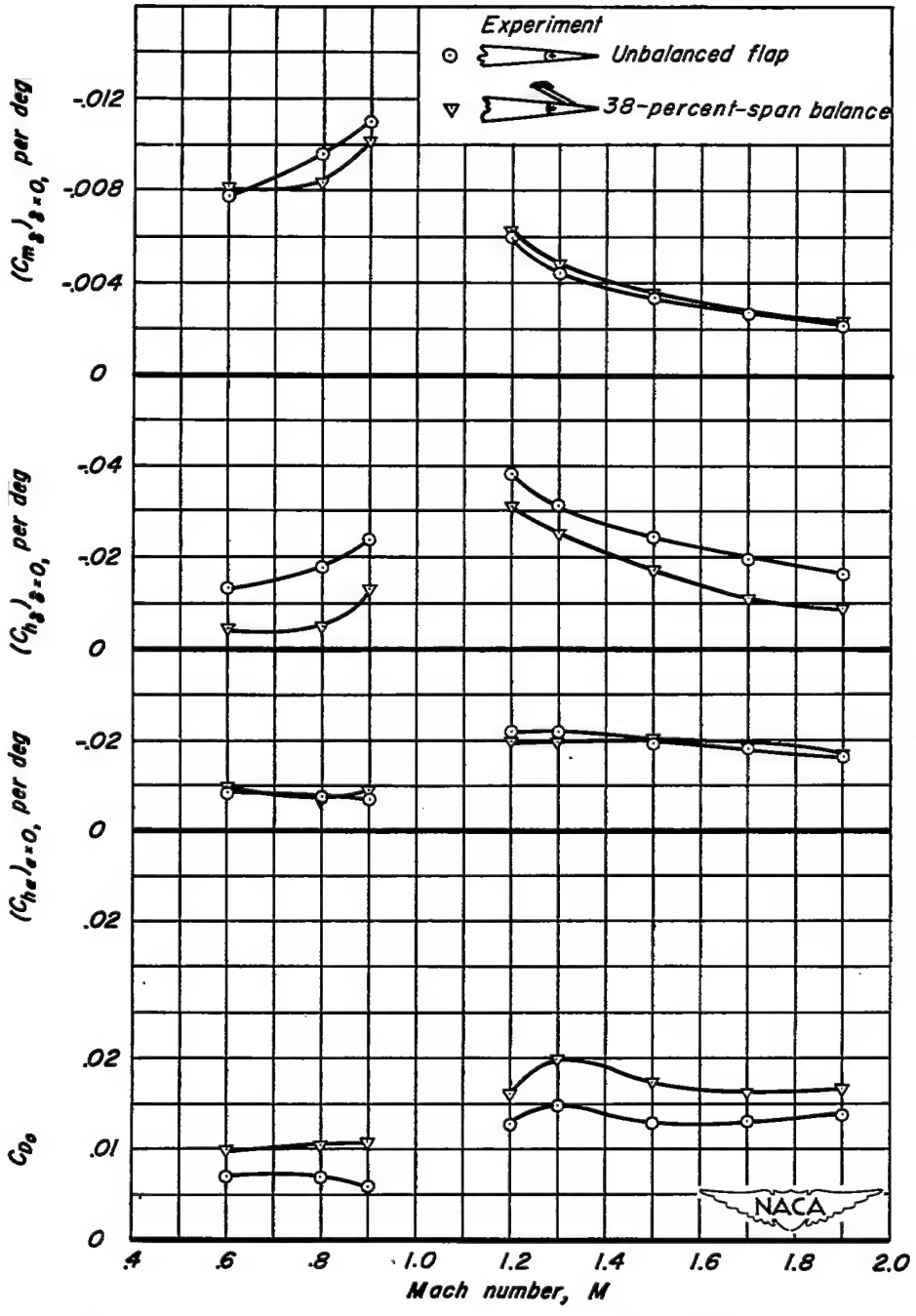
[redacted]



(e) 38-percent-span paddle balance on the upper and lower surfaces.

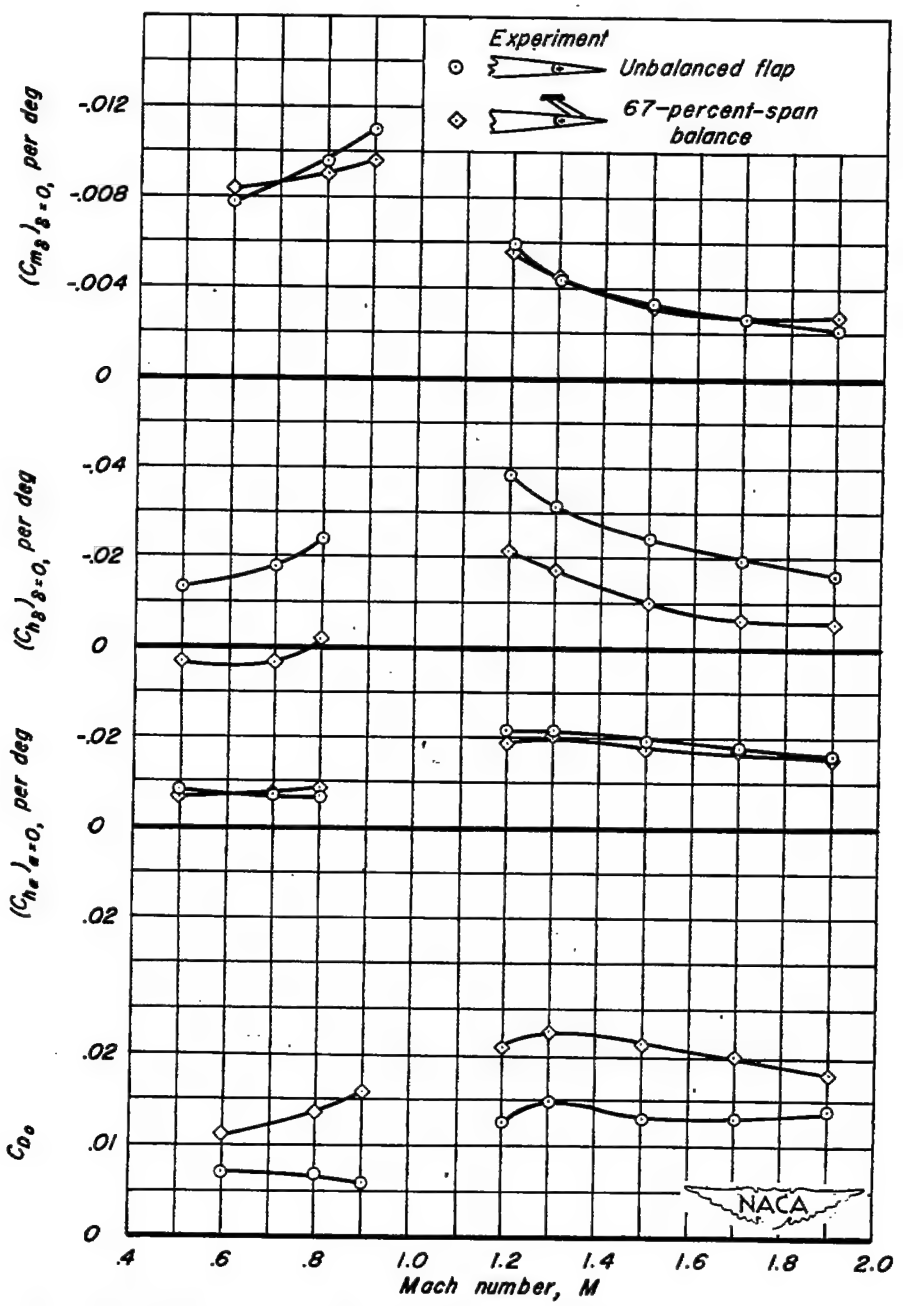
Figure 15.- Continued.

[redacted]



(f) 38-percent-span paddle balance on the upper surface.

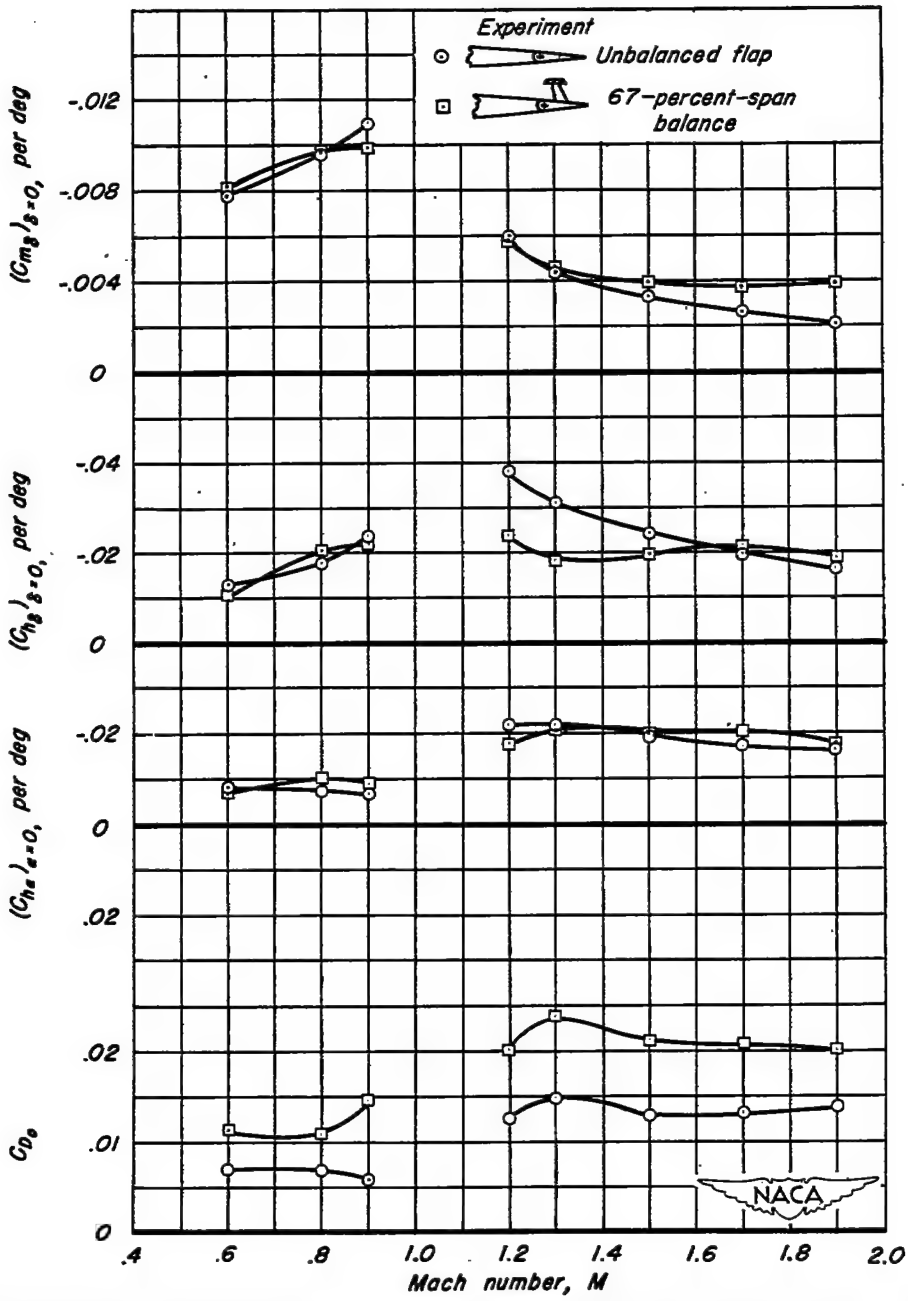
Figure 15.- Continued.



(g) 67-percent-span paddle balance on the upper surface forward of the hinge line.

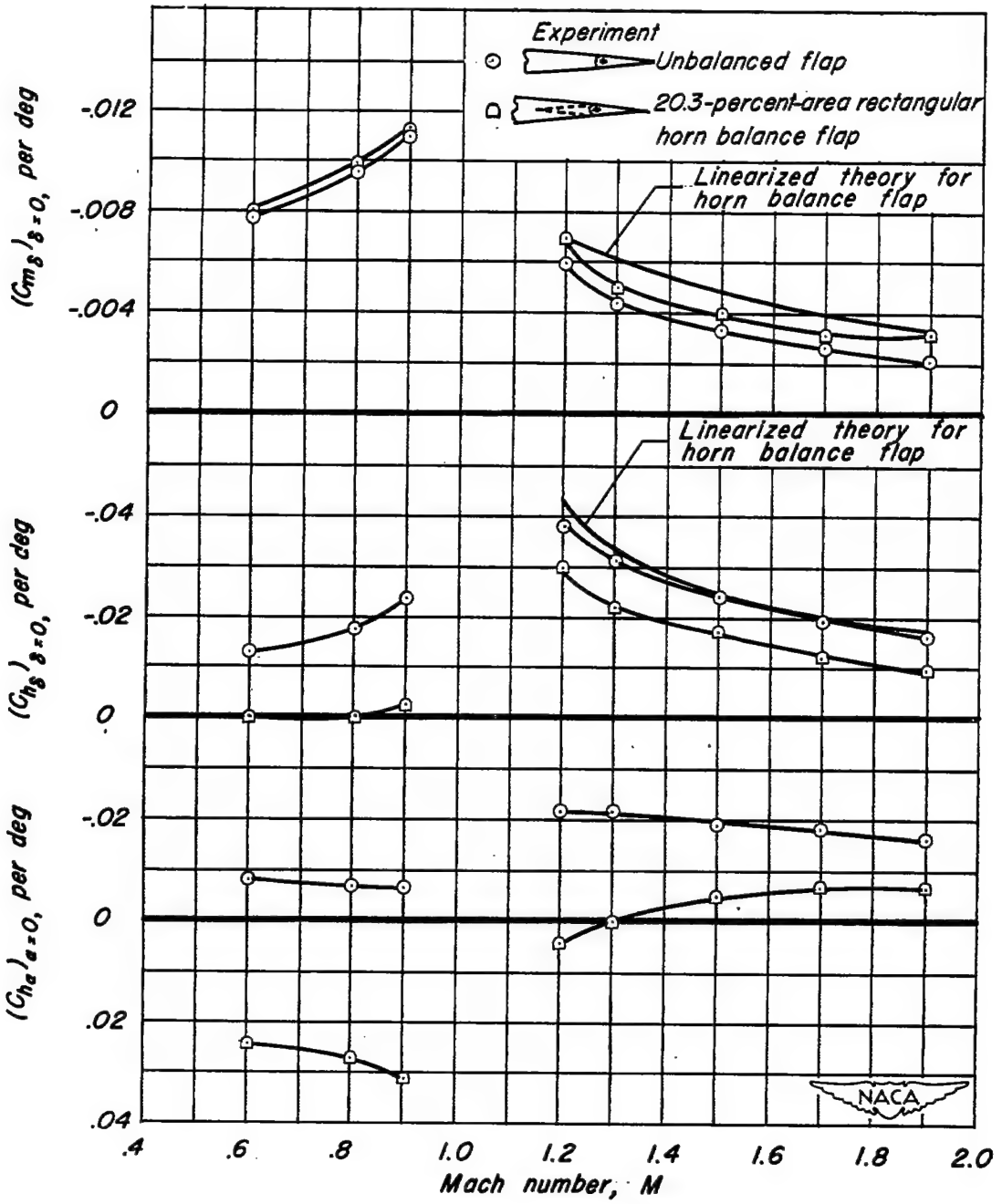
Figure 15.- Continued.

[redacted]



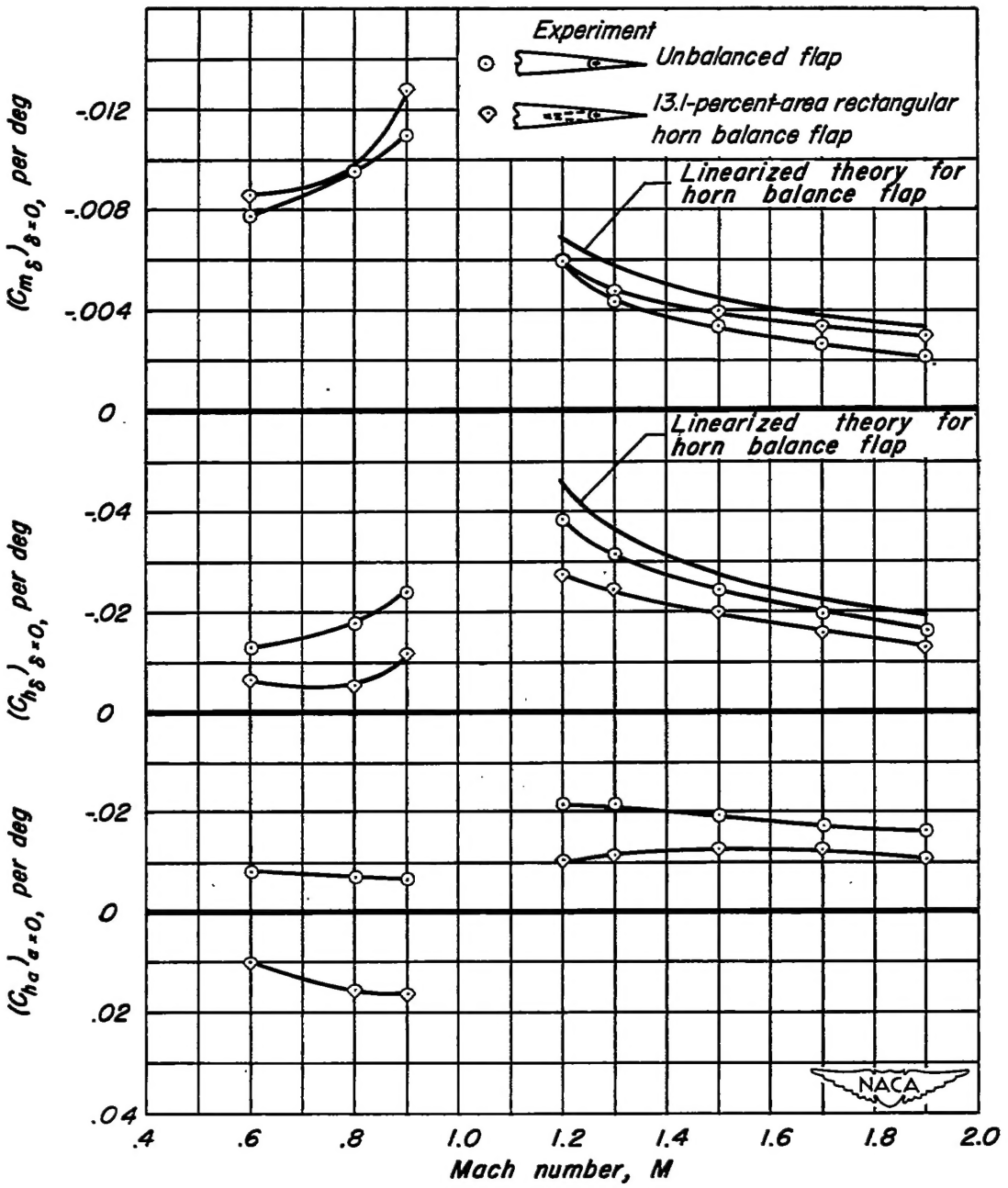
(h) 67-percent-span paddle balance on the upper surface aft of the hinge line.

Figure 15.- Continued.



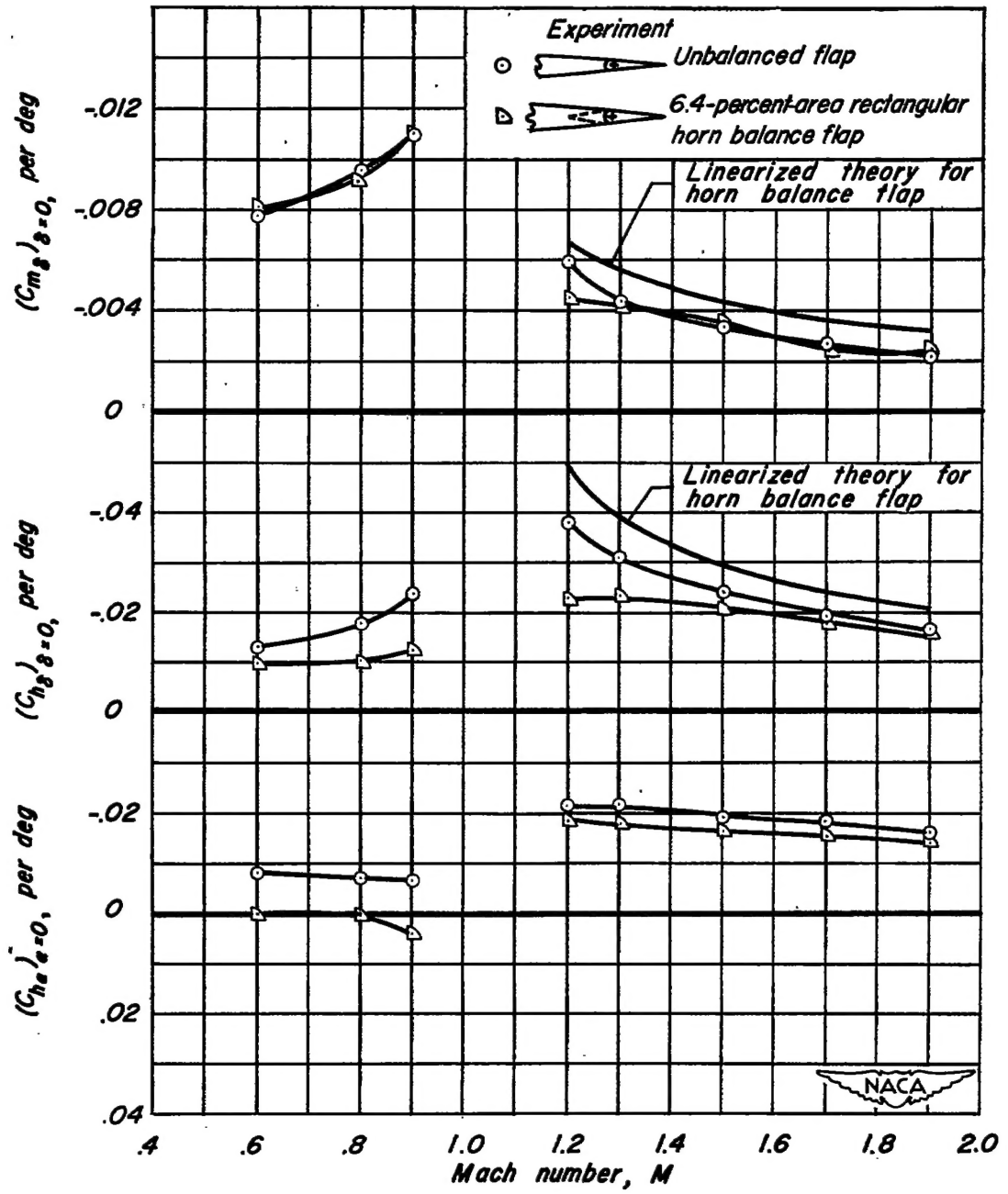
(i) 20.3 – percent–area rectangular horn balance flap.

Figure 15.– Continued.



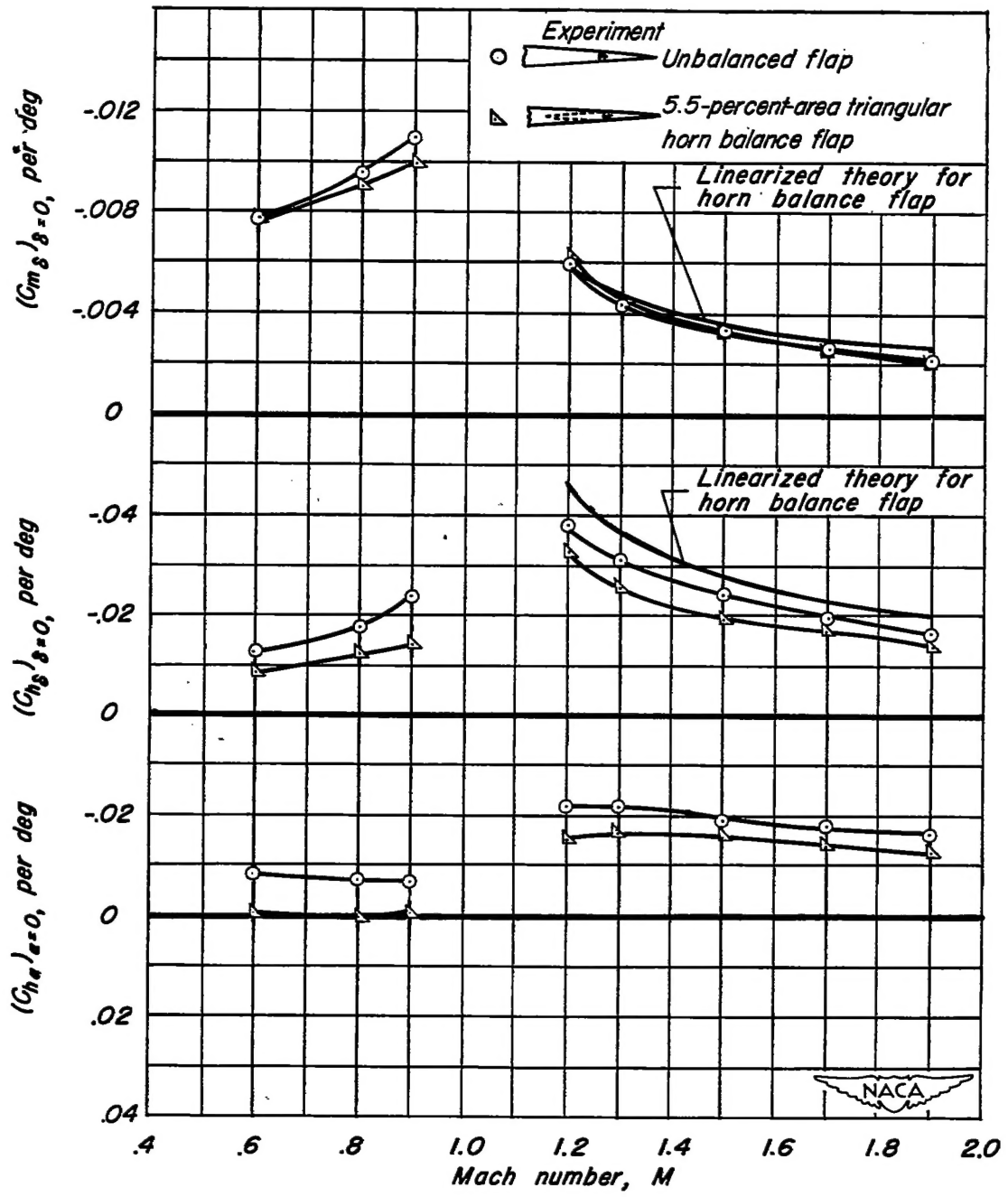
(j) 13.1 — percent-area rectangular horn balance flap.

Figure 15.- Continued.



(k) 6.4 — percent-area rectangular horn balance flap.

Figure 15.- Continued.



(l) 5.5 – percent-area triangular horn balance flap.

Figure 15. - Concluded.

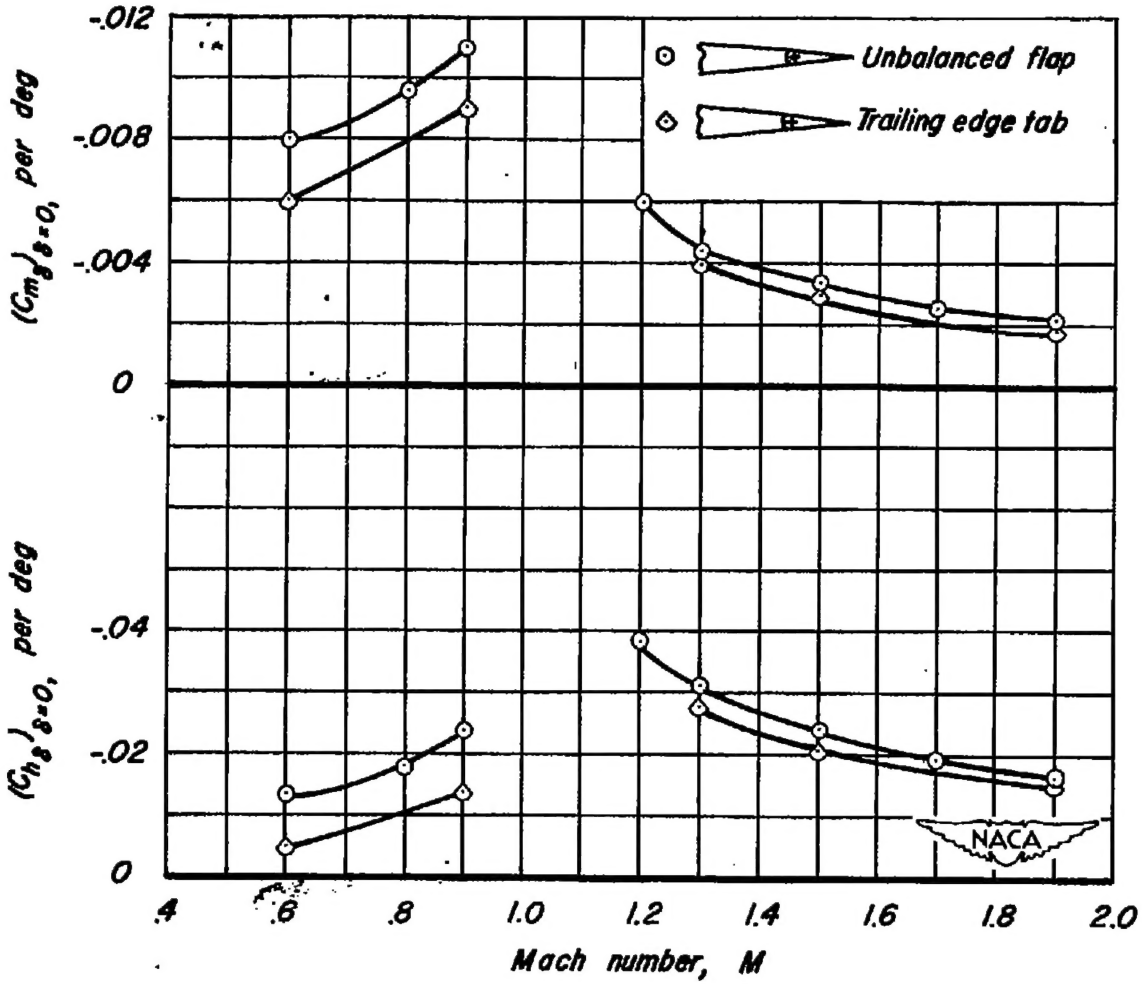


Figure 16.– Variation with Mach number of the pitching–moment–effectiveness parameter, C_{m_δ}, and the hinge–moment parameter, C_{h_δ}, for the unbalanced flap and a trailing–edge tab geared for equal and opposite deflection to that of the unbalanced flap. Data for two flaps.

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